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# Oil and Gas Units

Quarterly Update

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September 1987



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# Oil and Gas Units

Quarterly Update

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ENERGY RESOURCES CONSERVATION BOARD

Editorial correspondence to

Drilling and Production Department  
Energy Resources Conservation Board

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to 30 September 1987

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## OIL AND GAS UNITS

### NEW UNITS

Cyn-Pem Cardium C Unit  
Halkirk Upper Mannville I Pool Unit  
Medicine River Unit No. 4  
Medicine River Viking D Unit No. 2

### REVISED UNITS

Alderson West Upper Mannville S Pool Unit  
Bashaw Basal Quartz Gas Unit No. 1  
Bashaw D-3A Unit No. 1  
Bigoray Ostracod Unit No. 1  
Blood-Magrath Unit No. 1  
Boundary Lake South Triassic H Unit  
Brownfield Gas Unit  
Buffalo Lake (D-3) Unit  
Carrot Creek Cardium F Pool Unit No. 3  
Cessford Gas Unit No. 1  
Clive D-2 Unit No. 1  
Clive D-3A Unit No. 1  
Crossfield Cardium Unit No. 1  
Crossfield Cardium Unit No. 2  
Crossfield Elkton Z Gas Unit  
East Crossfield Unit  
Crystal Viking Unit No. 1  
Cyn-Pem Cardium C Unit  
Cyn-Pem Cardium D Unit No. 1  
Cyn-Pem Cardium Unit No. 1  
Delburne Gas Unit  
Erskine Gas Unit No. 1  
Erskine Leduc D-3A Unit No. 1  
Fenn-Big Valley Viking Gas Unit No. 1  
Flat Lake Gas Unit  
Ghost Pine Unit  
Gilby Viking E Unit No. 1  
Gilby Jurassic B Unit No. 1  
Goose River Unit No. 1  
Hackett Mannville A Unit No. 1  
House Mountain Unit No. 2  
House Mountain Unit No. 3  
Joarcam Viking Unit No. 1  
Kaybob South Beaverhill Lake Gas Unit No. 2  
Leduc-Woodbend D-2 Unit  
Leduc-Woodbend D-3 Unit  
Lone Pine Creek D-3 Gas Unit No. 1  
Malmo D-3B Gas Unit  
Maple Glen Gas Unit  
Medicine River Viking D Unit No. 2  
Meekwap D-2A Unit No. 1

REVISED UNITS

Mitsue Gilwood Sand Unit No. 1  
 Nipisi Gilwood Unit No. 1  
 Niton Unit  
 Nordegg Gas Unit No. 1  
 Oyen Gas Unit No. 4  
 Oyen Viking Sand Gas Unit  
 North Oyen Gas Unit  
 North Paddle River Gas Unit  
 Patricia Gas Unit No. 1  
 Pembina Cardium Unit No. 8  
 Raven Ostracod Gas Unit No. 1  
 Rich Gas Unit No. 1  
 Ricinus Cardium Unit No. 2  
 Rowley Belly River Gas Unit No. 1  
 Sibbald Unit No. 1  
 North Sibbald Gas Unit  
 Stolberg Gas Unit No. 1  
 Strachan Leduc D-3B Gas Unit  
 South Three Hills Creek Unit  
 East Swan Hills Unit No. 1  
 Virginia Hills BHL Unit No. 2  
 Virginia Hills Belloy-Shunda Unit No. 1  
 Westeros Leduc (D-3) Unit  
 Westeros South (Dick Lake) Leduc Unit  
 Westlock Gas Unit

The following Units were revised but Company Names, Unit Areas, and Final Participation were not affected.

Ferrier Cardium Unit No. 2  
 House Mountain Unit No. 1  
 Jenner Gas Unit No. 1  
 Lake McGregor Gas Unit  
 Lake Newell Milk River Gas Unit  
 Provost Viking Sand Gas Unit  
 Sounding Lake Cummings A Unit  
 Taber South Glauconitic A Unit No. 1  
 Taber South Mannville A Unit No. 2  
 Vulcan Gas Unit

ALDERSON WEST UPPER MANNVILLE "S" POOL UNIT

Unit Operator - PanCanadian Petroleum Limited

Initial Effective Date - 1 March 1984

Participation Revised - 1 March 1987

\*Unitized Zone - Upper Mannville Sandstone Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

Working Interest Owners

Per Cent Participation

Henuset Resources Ltd., by its Receiver and Manager, Coopers & Lybrand Limited	8.093328
Jerry Chambers Exploration Co.	3.629235
Oakwood Petroleums Ltd.	7.258472
PanCanadian Petroleum Limited	81.018965
	<u>100.000000</u>

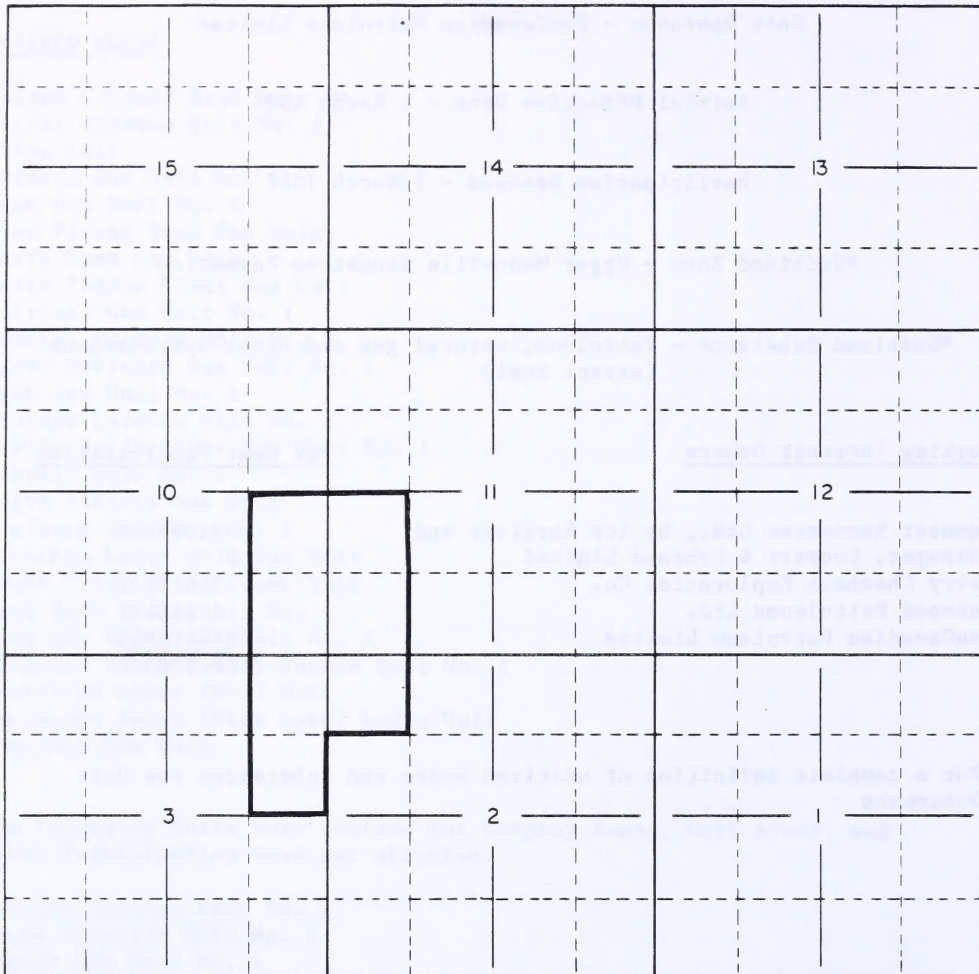
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

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# ALDERSON WEST UPPER MANNVILLE 'S' POOL UNIT



INITIAL EFFECTIVE DATE- 1 MARCH 1984

UNIT OPERATOR- PAN CANADIAN PETROLEUM LIMITED



BASHAW D-3A UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 December 1977

Participation Revised - 1 September 1987

\*Unitized Zone - Leduc Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

Working Interest Owners

Per Cent Participation

Adanac Oil & Gas Limited	2.30740
American Leduc Petroleums Ltd.	4.89650
Bellport Resources Ltd.	0.08253
Cardo Canada Ltd.	0.23902
Chevron Canada Resources Limited	0.93065
Corvair Oils Ltd.	0.28040
First Guardian Petroleum Corporation	0.23266
Gulf Canada Resources Limited	50.74151
Hudson's Bay Oil and Gas Company Limited	6.16073
Jerry Chambers Exploration Co.	0.10718
Patricia R. McLean	0.03230
PanCanadian Petroleum Limited	23.46410
Sasko Oil & Gas Limited	2.30740
Simmons Management Limited	4.93067
Texaco Canada Resources	3.28695
	<u>100.00000</u>

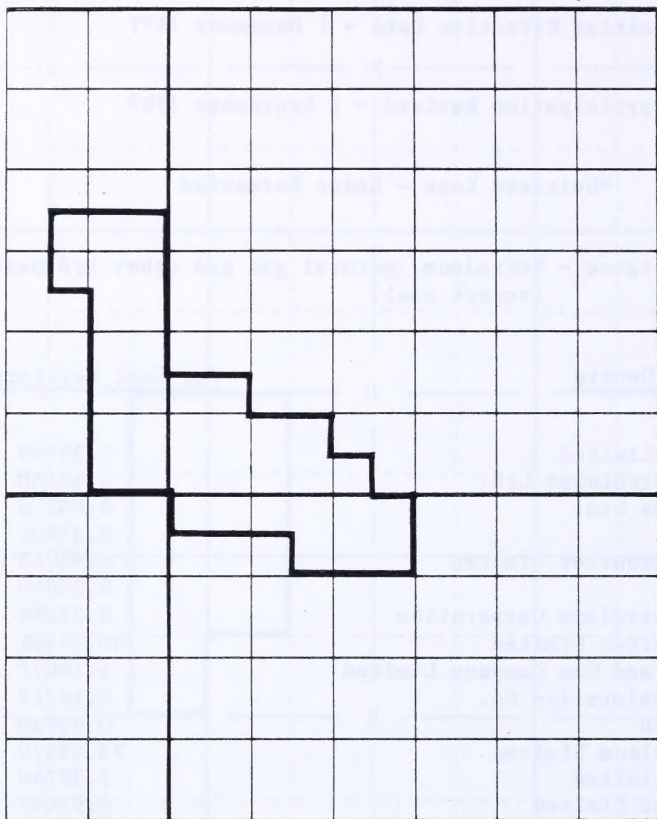
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

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BASHAW D-3A UNIT NO.1

INITIAL EFFECTIVE DATE - DECEMBER 1, 1977

UNIT OPERATOR - GULF CANADA RESOURCES LIMITED

BASHAW BASAL QUARTZ GAS UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 April 1977

Participation Revised - 1 September 1987

\*Unitized Zone - Basal Quartz Zone

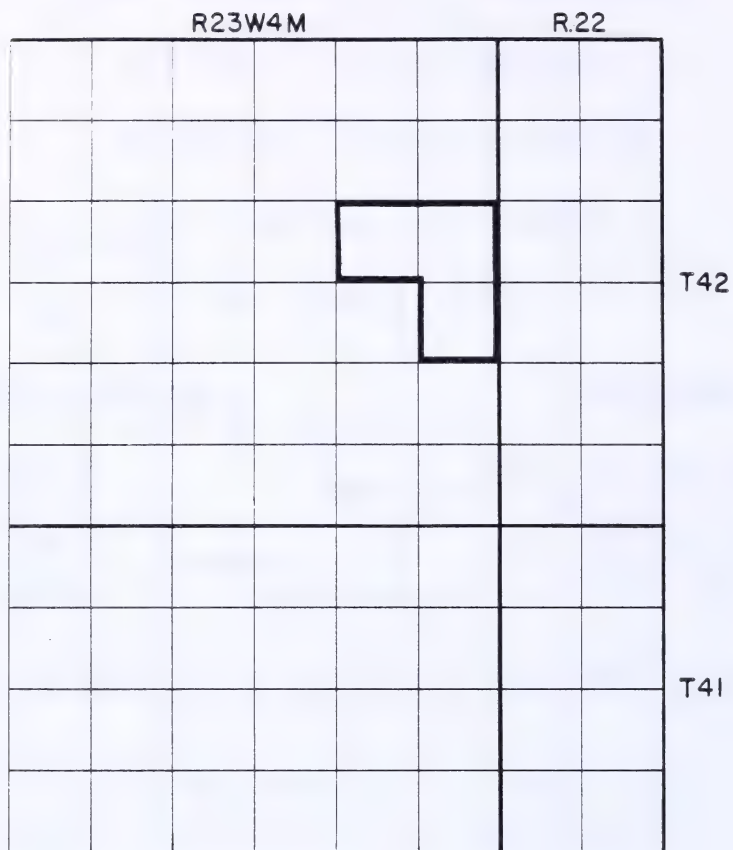
\*Unitized Substance - Gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Gulf Canada Resources Limited	40.5984
Hudson's Bay Oil and Gas Company Limited	10.1496
Kerr-McGee Corporation	4.1666
PanCanadian Petroleum Limited	22.9418
Texaco Canada Resources	22.1436
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

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BASHAW BASAL QUARTZ GAS UNIT NO.1

INITIAL EFFECTIVE DATE — APRIL 1, 1977

UNIT OPERATOR — GULF CANADA RESOURCES LIMITED



BIGORAY OSTRACOD UNIT NO. 1

Unit Operator - Norcen Energy Resources Limited

Initial Effective Date - 1 October 1964

Participation Revised - 1 July 1987

\*Unitized Zone - Ostracod Zone

\*Unitized Substance - Crude oil, natural gas and other hydrocarbons  
(except coal)

Working Interest Owners

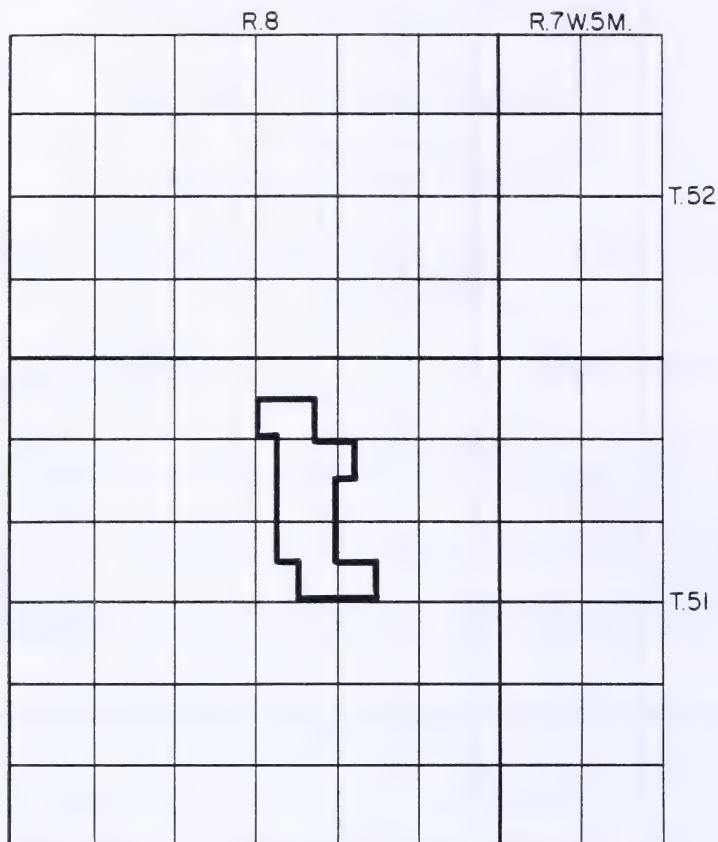
Per Cent Participation

Amoco Canada Petroleum Company Ltd.	1.3989
Canada-Cities Service, Ltd.	0.5995
Denison Mines Limited	16.4231
Felmont Oil Corporation	0.5866
Norcen Energy Resources Limited	80.5923
Saba Energy Ltd.	0.1998
Texaco Exploration Canada Ltd.	0.1998
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

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# BIGORAY OSTRACOD UNIT NO. 1

UNIT OPERATOR - NORCEN ENERGY RESOURCES LIMITED

INITIAL EFFECTIVE DATE - OCTOBER 1, 1964

BLOOD-MAGRATH UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 12 June 1986

Participation Revised - 1 September 1987

\*Unitized Zone - Bow Island Sand Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Gulf Canada Resources Limited	50.651
Mohawk Oil Co. Ltd.	<u>49.349</u>
	100.000

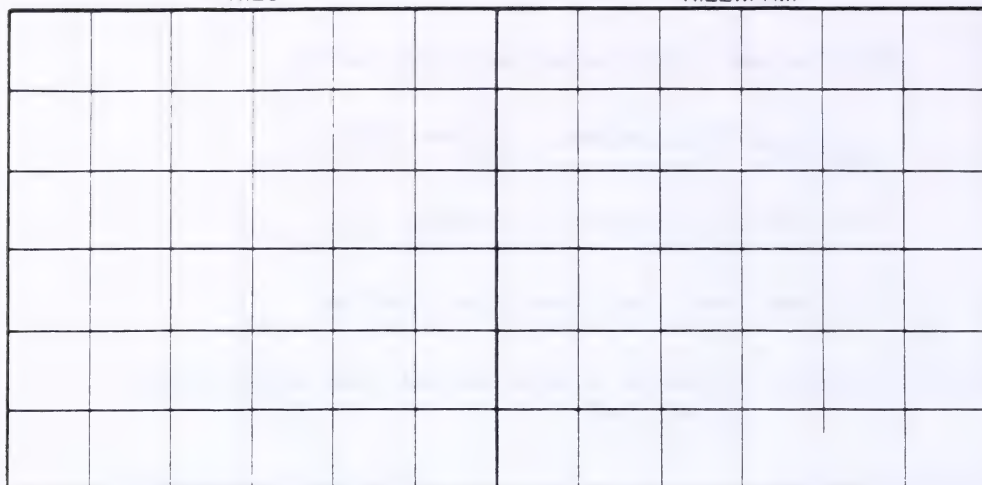
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

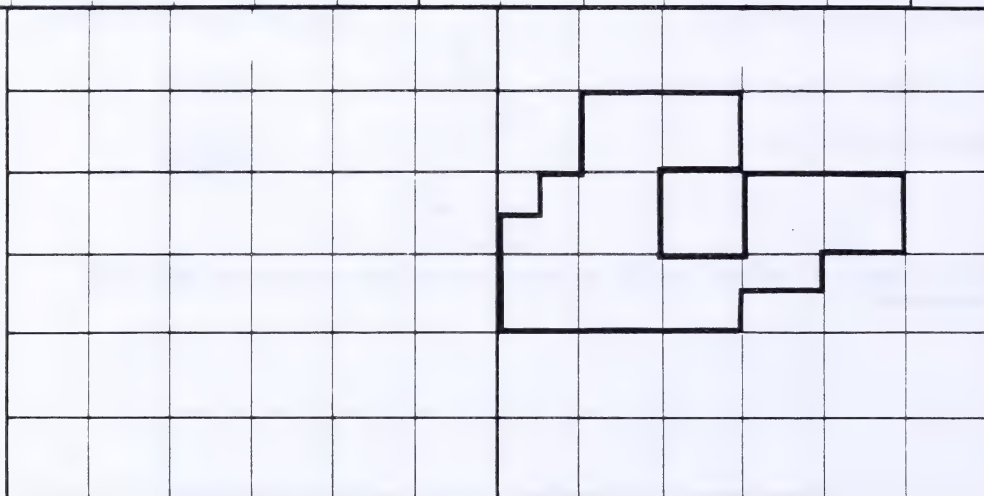
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BLOOD-MAGRATH UNIT NO.1

**ERCB**

INITIAL EFFECTIVE DATE- 12 JUNE 1986

UNIT OPERATOR- GULF CANADA RESOURCES LIMITED



BOUNDARY LAKE SOUTH TRIASSIC H UNIT

Unit Operator - Ultramar Oil and Gas Canada Limited

Initial Effective Date - 1 January 1981

Participation Revised - 1 August 1987

\*Unitized Zone - Boundary Lake Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

Working Interest Owners

Per Cent Participation

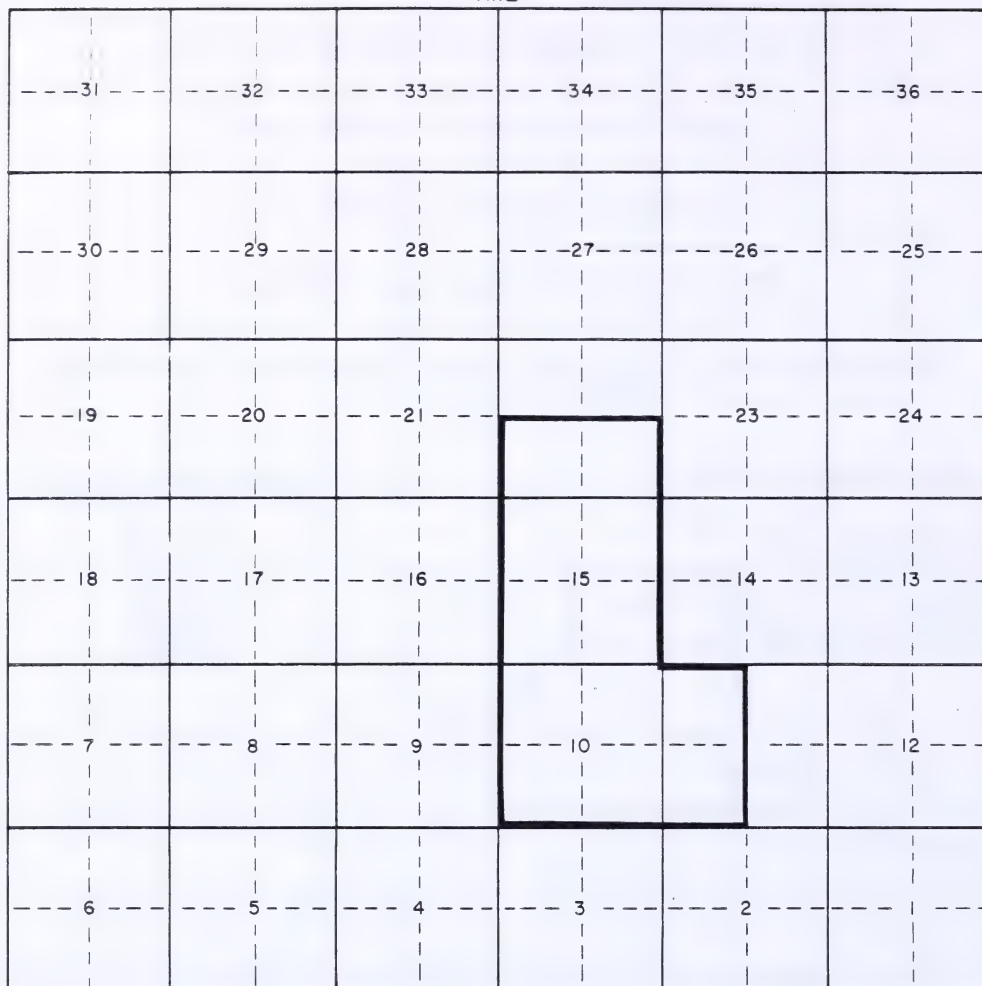
Inverness Resources Ltd.	12.31159
Page Petroleum Ltd.	32.61238
Pencor Petroleum Limited	6.15580
Ultramar Oil and Gas Limited	32.85003
RTEC One Resources Inc.	16.07020
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

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# BOUNDARY LAKE SOUTH TRIASSIC H UNIT



INITIAL EFFECTIVE DATE - 1 JANUARY 1981

UNIT OPERATOR- ULTARAMAR OIL AND GAS CANADA LIMITED

BROWNFIELD GAS UNIT

Unit Operator - Dome Petroleum Limited

Initial Effective Date - 1 November 1969

Participation Revised - 1 September 1987

\*Unitized Zone - Viking, Glauconitic and Wainwright

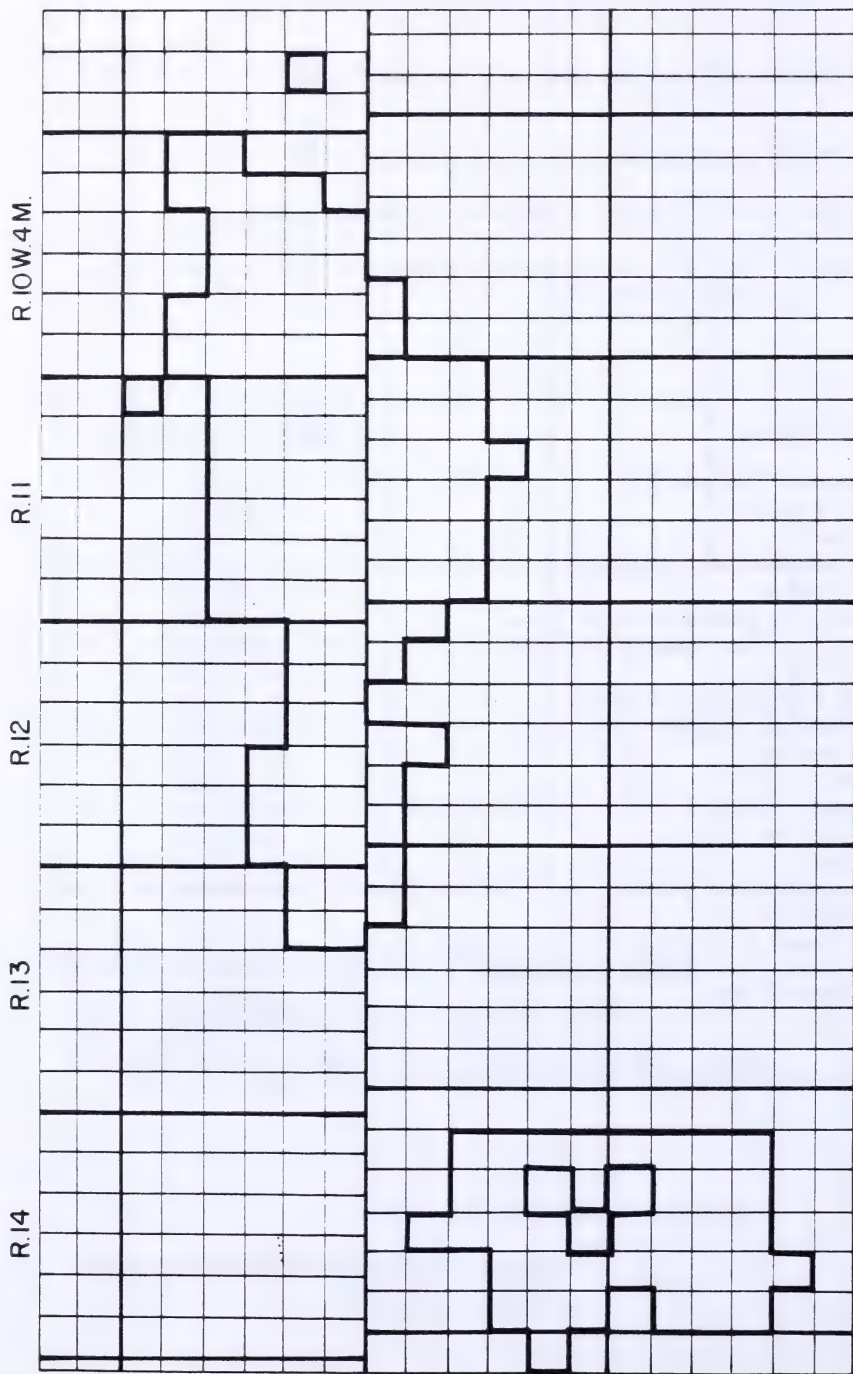
\*Unitized Substance - Natural gas, sulphur, all fluid hydrocarbons other than crude oil

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Anadarko Petroleum of Canada Ltd.	0.119300
BowRio Resources Limited	3.447220
Carlyle Energy Ltd.	0.135190
Conwest Exploration Company Limited	0.620015
Dome Petroleum Limited	32.302570
Flint Engineering and Construction, Ltd.	0.417570
Hudson's Bay Oil and Gas Company Limited	5.058640
KarJan Petroleums Ltd.	0.126620
Pacific Lighting Exploration Company	0.475630
PanCanadian Petroleum Limited	0.399270
Penn West Petroleum Ltd.	0.011760
Petrorep (Canada) Ltd.	0.237810
Provo Gas Producers Limited	51.687880
RTEC One Resources Inc.	0.994060
TCPL Resources Ltd.	0.620015
Tiber Energy Corporation	0.059650
Universal Explorations Ltd.	0.309160
Wabiskaw Explorations Ltd.	2.383430
Western Decalta Petroleum (1977) Limited	0.404280
Westgrowth Petroleums Ltd.	0.189930
	<u>100.000000</u>

\* For a complete definition of unitized zone and substance see Unit Documents

(For Area - See Reverse Side)

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# BROWNFIELD GAS UNIT

INITIAL EFFECTIVE DATE - 1 NOVEMBER 1969  
UNIT OPERATOR- DOME PETROLEUM LIMITED





BUFFALO LAKE (D-3) UNIT

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 December 1967

Participation Revised - 1 September 1987

\*Unitized Zone - Leduc D-3 Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Gulf Canada Resources Limited	24.99998
Hudson's Bay Oil and Gas Company Limited	9.16669
Hunt Oil Company	5.00000
Inter-Rock Oil Company of Canada Limited	2.08333
Norcen Energy Resources Limited	6.24999
RTEC One Resources Inc.	52.50001
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

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R.2|W.4M.

31	32	33			36
30	29	28			25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	

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## BUFFALO LAKE D3 UNIT



INITIAL EFFECTIVE DATE- 1 DECEMBER 1967

UNIT OPERATOR- GULF CANADA RESOURCES LIMITED

CARROT CREEK CARDIUM "F" POOL UNIT NO. 3

Unit Operator - Amoco Canada Petroleum Company Ltd.

Initial Effective Date - 1 August 1986

Participation Revised - 1 July 1987

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

Working Interest Owners

Per Cent Participation

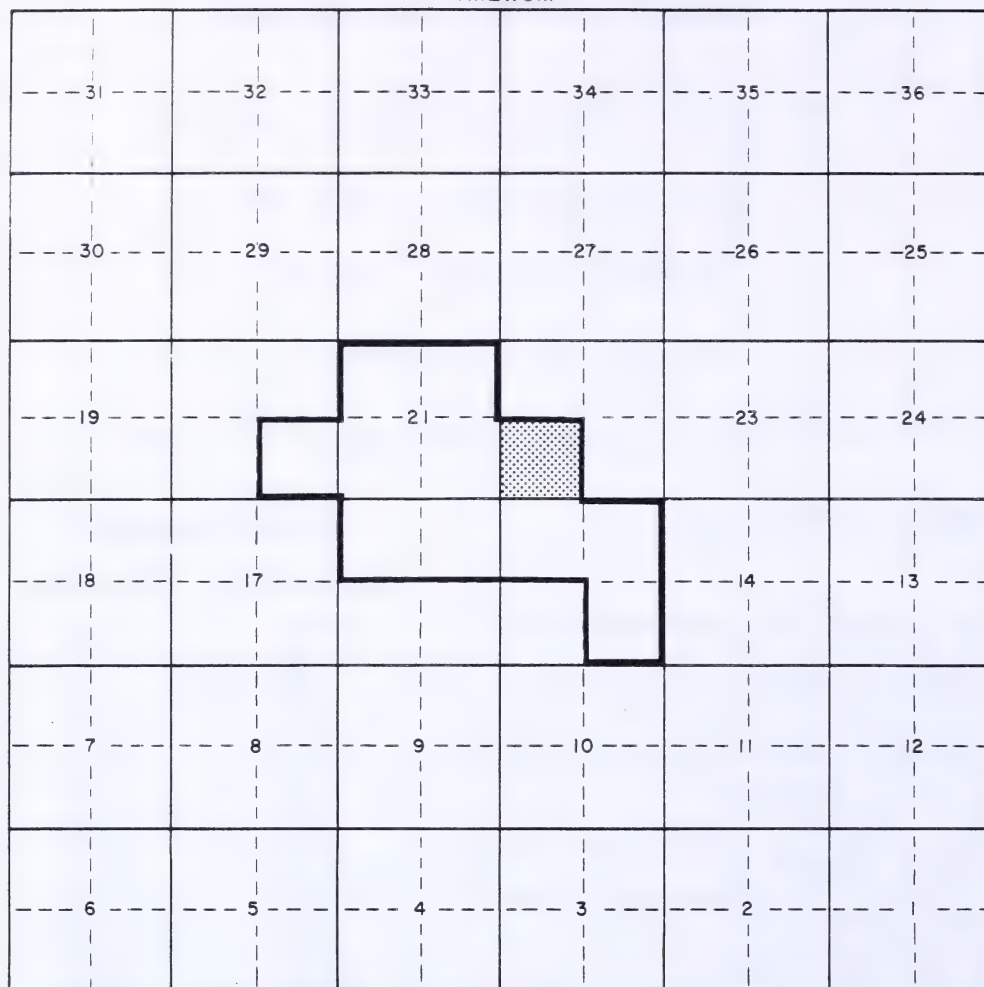
	<u>Before Payout</u>	<u>After Payout</u>
Amoco Canada Petroleum Company Ltd.	51.364	51.364
APL Oil and Gas Ltd.	13.749	9.295
Canadian Occidental Petroleum Ltd.	3.841	4.328
Canadian Roxy Petroleum Ltd.	2.739	3.587
Coachwood Resources Ltd.	1.170	0.731
Cooperative Energy Development Corporation	0.000	0.244
Hillcrest Resources Ltd.	0.780	0.488
Irad Development Ltd.	1.678	1.339
Many Islands Pipe Lines (Canada) Limited	0.000	0.742
Novalta Resources Ltd.	0.000	1.856
Precambrian Shield Resources Limited	1.404	1.404
Soquip Alberta Inc.	0.000	1.856
Texaco Canada Resources	3.438	3.438
Wellore Resources Ltd.	14.075	13.566
Westcoast Petroleum Ltd.	5.762	5.762
	<u>100.000</u>	<u>100.000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

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# CARROT CREEK CARDIUM "F" POOL UNIT NO.3



INITIAL EFFECTIVE DATE - 1 AUGUST 1986

UNIT OPERATOR- AMOCO CANADA PETROLEUM COMPANY LTD.

AREA OF CHANGE EFFECTIVE - 1 JULY 1987





CESSFORD GAS UNIT NO. 1

Unit Operator - Hudson's Bay Oil and Gas Company Limited

Initial Effective Date - 8 November 1958

Participation Revised - 1 September 1987

\*Unitized Zone - Viking, Basal Colorado, and Basal Blairmore Sands

\*Unitized Substance - Natural gas

Working Interest Owners

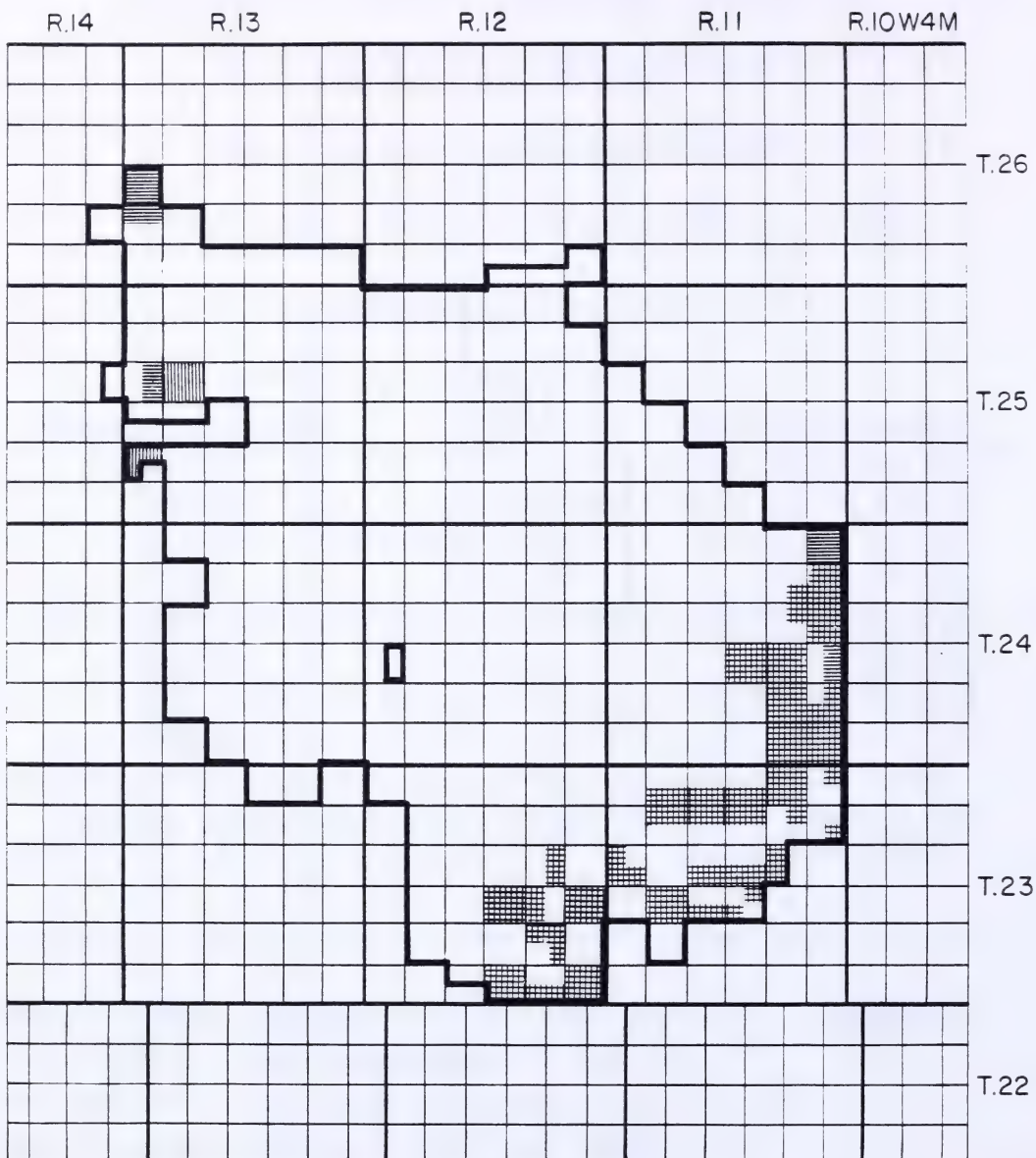
Per Cent Participation

Gulf Canada Resources Inc.	1.2278
Hudson's Bay Oil and Gas Company Limited	46.6593
Murphy Oil Company Ltd.	1.1796
Musketeer Energy Ltd.	0.2049
Petro-Canada Inc.	0.0522
Sceptre Resources Ltd.	1.6941
Shell Canada Limited	3.1523
Sulpetro Limited	44.9938
Texaco Canada Resources	0.6393
Frank W. White	0.1967
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)





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# CESSFORD GAS UNIT NO.1

INITIAL EFFECTIVE DATE - NOVEMBER 8, 1958

UNIT OPERATOR - HUDSON'S BAY OIL AND GAS COMPANY LIMITED

VIKING, BSL COLO, AND BSL BL UNITIZED   
 BSL COLO AND BSL BL UNITIZED   
 BSL COLO UNITIZED   
 BSL BL UNITIZED 

CLIVE D-2 UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 September 1970

Participation Revised - 1 September 1987

\*Unitized Zone - Nisku Formation

\*Unitized Substance - Gas cap gas, oil and solution gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>	
	<u>Oil Interests</u>	<u>Gas Interests</u>
Acquifund Resources Limited	0.11099	1.31171
Adeco Drilling and Engineering Co. Ltd.	0.71445	0.52328
Amoco Canada Petroleum Company Ltd.	23.03974	21.57592
Bow Valley Industries Ltd.	0.05158	0.37564
Canadian Occidental Petroleum Ltd.	2.56575	4.92330
Canadian Superior Oil Ltd.	23.39667	25.89157
G.P. Davis	0.01094	0.00868
Dome Petroleum Ltd.	0.00755	0.28400
Esso Resources Canada Limited	4.40270	6.77290
First National Bank of Oregon (Estate of M. Tillotson)	0.01094	0.00868
Gulf Canada Resources Limited	21.44280	20.98325
J. M. Huber Corporation	1.41080	1.13520
Kerr-McGee Corporation	4.92960	0.47885
Leddy Exploration Limited	0.01605	0.44521
C.A. Lott	0.00073	0.00044
Charles L. McMahon	0.00629	0.00380
R. W. McMahon	0.03794	0.74877
Montclair Oil Ltd.	0.02187	0.01735
Mosswood Oil and Gas Ltd.	0.01100	0.28120
Musketeer Energy Ltd.	3.60616	1.57932
Northern Development Company Limited	0.11232	-
Ocelot Industries Ltd.	0.02675	0.74201
PanCanadian Petroleum Limited	0.26360	-
Pennzoil United, Inc.	1.09346	0.86778
Petro Canada Exploration Inc.	2.82887	1.93148
Petroleum International Inc.	0.06482	1.49086
Sabre Petroleums Ltd.	0.05664	1.49683
Sasko Oil & Gas Inc.	0.05158	0.37564
Sceptre Resources Limited	0.01404	-

Working Interest Owners

	<u>Per Cent Participation</u>	
	<u>Oil Interests</u>	<u>Gas Interests</u>

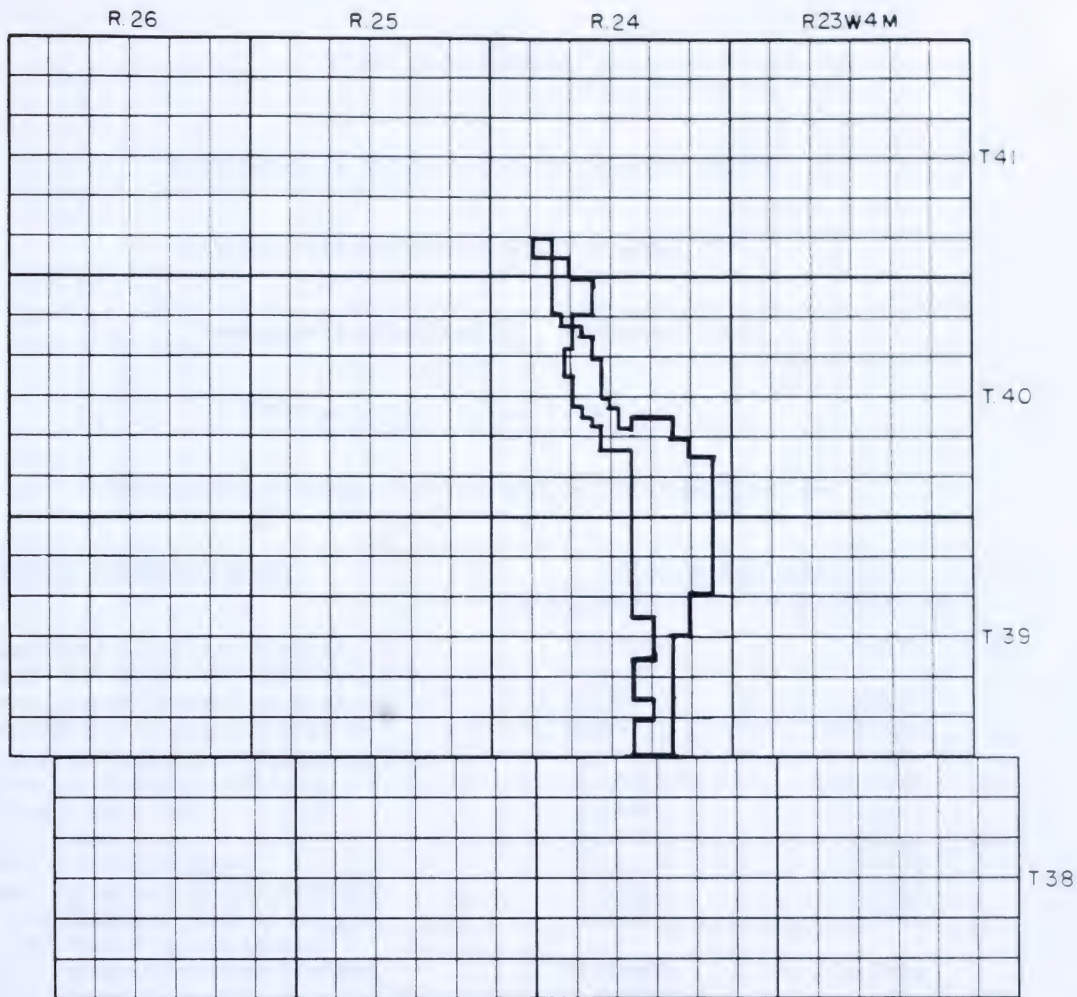
E. J. Schermerhorn	0.01476	0.00891
Southland Royalty Company	1.88440	0.44850
Star Oil & Gas Ltd.	0.95300	0.24090
R.C. Stratford	0.15308	0.12150
Texaco Canada Inc.	3.61440	3.43050
Texaco Canada Resources	2.42837	0.19043
Texas Crude Oil Company	0.01404	-
United Canso Oil & Gas Ltd.	0.32803	0.26034
Westair Resources Ltd.	0.02187	0.01735
Westmin Resources Limited	0.23815	0.17442
Zorayda Oil Co. Ltd.	0.04327	0.85348
	<u>100.00000</u>	<u>100.00000</u>

\* For a complete definition of unitized zone and substance see Unit Documents

(For Area - See Reverse Side)

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Calgary, Alberta





CLIVE D-2 UNIT NO. 1



INITIAL EFFECTIVE DATE - 1 SEPTEMBER 1970

UNIT OPERATOR - GULF CANADA RESOURCES LIMITED



CLIVE D-3A UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 September 1970

Participation Revised - 1 September 1987

\*Unitized Zone - Leduc Formation

\*Unitized Substance - Gas cap gas, oil and solution gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>	
	<u>Oil Interests</u>	<u>Gas Interests</u>
Acquifund Resources Limited	2.22236	2.08079
Adeco Drilling and Engineering Co. Ltd.	0.56813	-
Amoco Canada Petroleum Company Ltd.	13.02200	21.44857
Bow Valley Industries Ltd.	0.86775	0.41285
Canadian Occidental Petroleum Ltd.	4.17855	6.97925
Canadian Superior Oil Ltd.	18.50710	20.07547
Corvair Oils Ltd.	0.24061	0.11512
G.P. Davis	0.00622	0.03322
Dome Petroleum Ltd.	0.22154	0.49528
Esso Resources Canada Limited	3.16610	1.56060
First National Bank of Oregon (Estate of M. Tillotson)	0.00621	0.03322
Gulf Canada Resources Limited	18.30485	18.42655
J. M. Huber Corporation	4.44650	-
Hudson's Bay Oil and Gas Company Limited	0.80430	0.15560
Kerr-McGee Corporation	10.31225	0.72910
Leddy Exploration Limited	0.26632	0.77043
C.A. Lott	0.00958	0.00035
Charles L. McMahon	0.08217	0.00299
R. W. McMahon	0.59027	1.28938
Montclair Oil Ltd.	0.01244	0.06642
Mosswood Oil and Gas Ltd.	1.56820	0.34830
Musketeer Energy Ltd.	2.09761	4.67402
Norcen Energy Resources Limited	0.26158	0.05625
Northern Development Company Limited	0.33344	0.21312
Ocelot Industries Ltd.	0.44385	1.28405

Working Interest Owners

<u>Per Cent Participation</u>	
<u>Oil Interests</u>	<u>Gas Interests</u>

PanCanadian Petroleum Limited	1.54830	-
Pennzoil United, Inc.	0.62200	3.32137
Petro Canada Inc.	1.68730	2.05331
Petroleum International Inc.	1.03567	2.57349
Raeson Investments Ltd.	0.08017	0.03837
Sabre Petroleums Ltd.	0.84371	2.58645
Sasko Oil & Gas Inc.	0.69336	0.37535
Sceptre Resources Limited	0.04168	0.02664
E. J. Schermerhorn	0.19306	0.00702
Southland Royalty Company	3.34480	0.71085
Star Oil & Gas Ltd.	1.63452	0.78261
R.C. Stratford	0.08708	0.46500
Texaco Canada Inc.	3.18600	2.42640
Texaco Canada Resources	1.15130	0.79017
Texas Crude Oil Company	0.04168	0.02664
United Canso Oil & Gas Ltd.	0.18660	0.99641
Jack Wahl	0.14533	0.03125
Westair Resources Ltd.	0.01244	0.06642
Westmin Resources Limited	0.18937	-
Zorayda Oil Co. Ltd.	0.73570	1.47132
	<u>100.00000</u>	<u>100.00000</u>

\* For a complete definition of unitized zone and substance see Unit Documents

(For Area - See Reverse Side)

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Calgary, Alberta



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UNIT OPERATOR- GULF CANADA RESOURCES LIMITED



Unit Operator - Crescendo Oil &amp; Gas Ltd.

Initial Effective Date - 1 January 1962

Participation Revised - 9 September 1987

\*Unitized Zone - Lower Cardium Formation

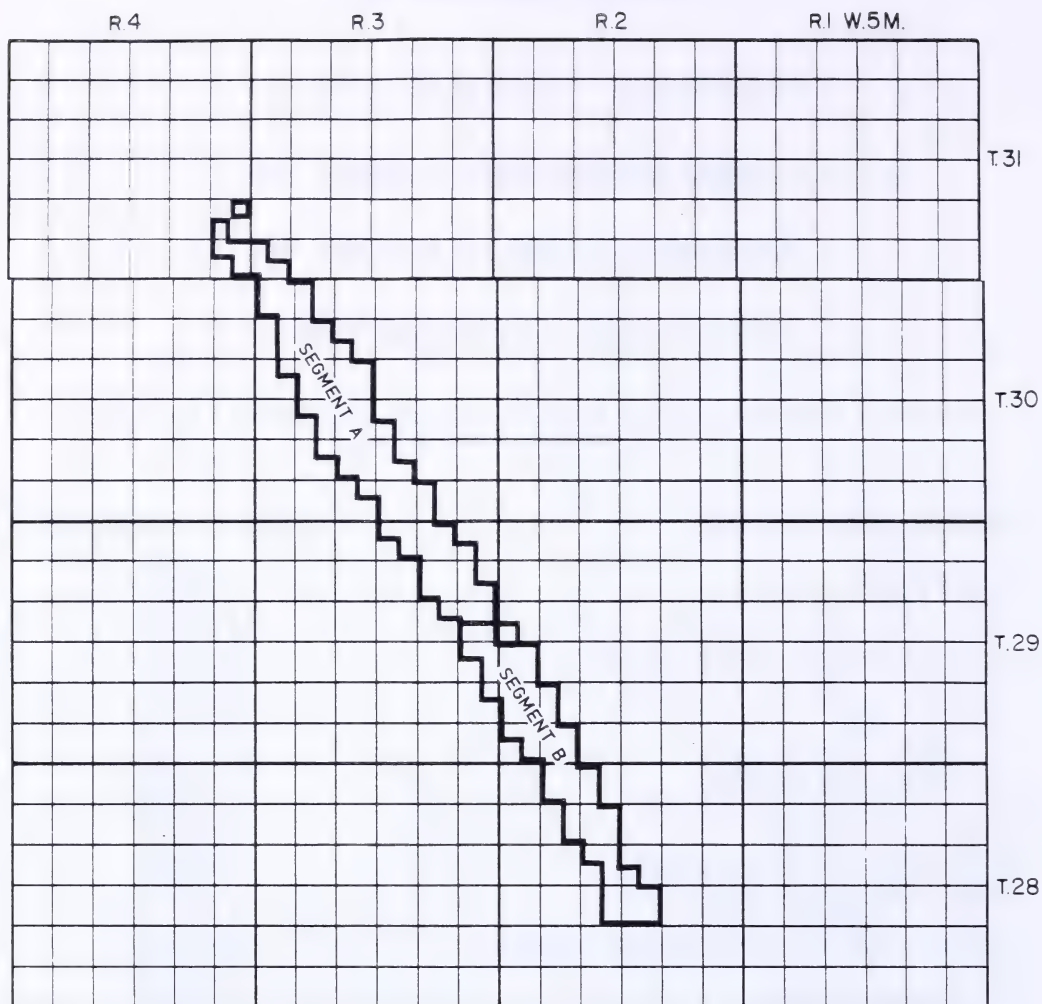
\*Unitized Substance - Crude oil, natural gas, condensate, and other hydrocarbons (except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Asamera Inc	3.834035
Black Cat Oil & Gas Ltd.	1.235912
Bow Valley Industries Ltd.	7.415676
Canada NorthWest Energy Limited	0.099293
Canadian Occidental Petroleum Ltd.	2.290806
Canadian Superior Oil Ltd.	6.592875
Coleman, Ruth	0.048564
Crescendo Oil & Gas Ltd.	30.816381
Dome Petroleum Limited	2.336296
Drever, Josphine A.	0.048564
Drever, William A.	0.097127
Dundee-Palliser Resources Inc.	0.558187
Glenex Industries Inc.	0.198579
Home Oil Company Limited	1.016463
Hudson's Bay Oil & Gas Company Limited	0.924988
James, H. T.	0.531305
L & M Holdings Ltd.	0.039718
Musketeer Energy Ltd.	1.104522
New York Oils Limited	1.181286
Norcen Energy Resources Limited	1.856353
Paddon Hughes Development Co. Ltd.	0.095655
Pembina Resources Limited	1.075002
Pipawa Exploration Limited	0.949196
Placer Cego Petroleum (A Division of Placer Dome Inc.)	5.606957
Provo Gas Producers Limited	3.511794
Ranchmen's Resources Ltd.	0.533221
Scurry-Rainbow Oil Limited	0.872718
Shell Canada Limited	7.734223
Suncor Inc.	4.807240
Vee Jay Oil Producers Inc.	0.170089
Westburne Petroleum & Minerals Ltd.	12.416975
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



## CROSSFIELD CARDIUM UNIT NO.1

INITIAL EFFECTIVE DATE - 1 JANUARY 1962

UNIT OPERATOR- CRESCENDO OIL & GAS LTD.





CROSSFIELD CARDIUM UNIT NO. 2

Unit Operator - Crescendo Oil & Gas Ltd.

Initial Effective Date - 1 December 1964

Participation Revised - 9 September 1987

\*Unitized Zone - Cardium Formation

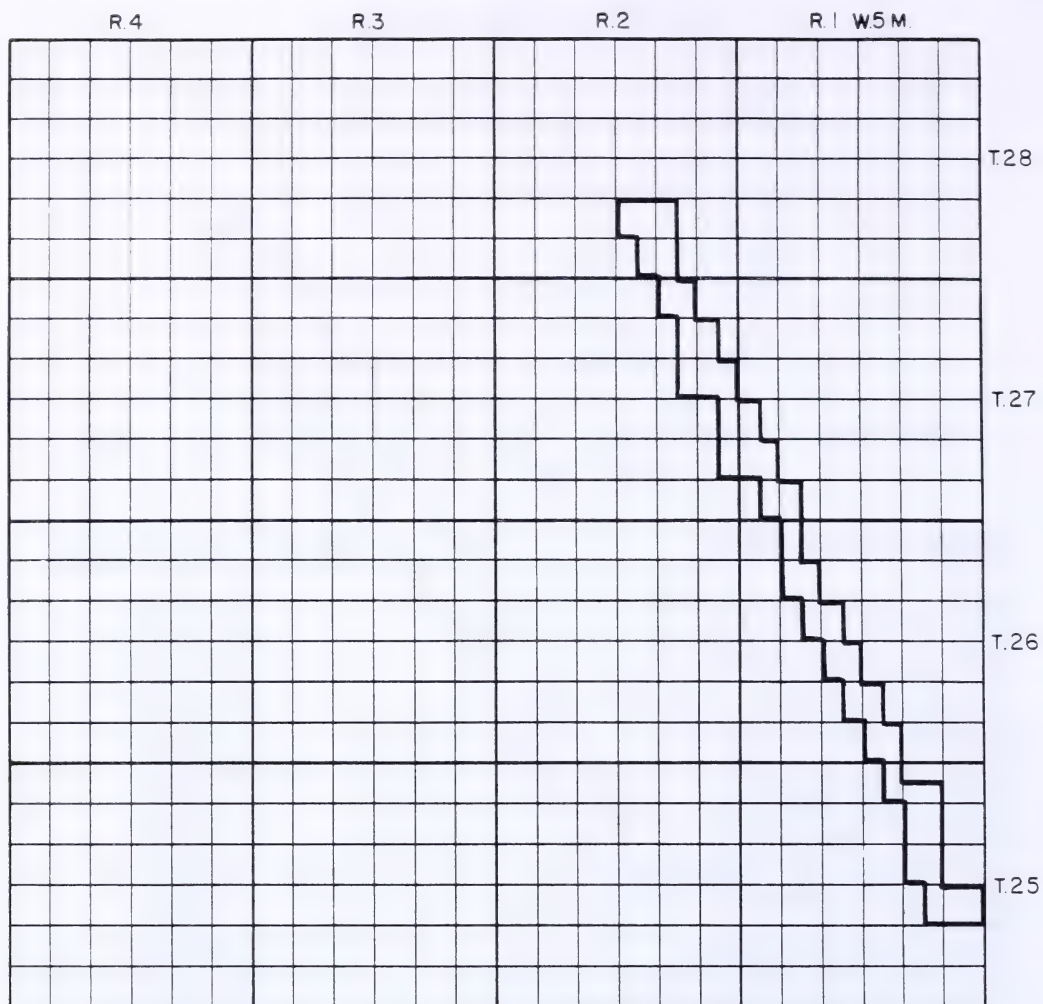
\*Unitized Substance - Petroleum, natural gas, and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Canadian Superior Oil Ltd.	0.407171
Crescendo Oil & Gas Ltd.	48.116966
Dome Petroleum Limited	2.257545
Esso Resources Canada Limited	8.584691
Gulf Canada Resources Limited	0.821423
Husky Oil Operations Ltd.	2.656599
Mobil Oil Canada, Ltd.	0.173281
Musketeer Energy Ltd.	2.145022
Norcen Energy Resources Limited	0.122152
Ranger Oil Limited	2.416064
Scurry-Rainbow Oil Limited	3.136940
Shell Canada Limited	11.050525
Suncor Inc.	0.580185
Texaco Canada Resources	6.642811
Total Petroleum Canada Ltd.	3.116113
Ultramar Oil and Gas Canada Limited	7.575226
Unocal Canada Limited	0.197286
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



## CROSSFIELD CARDIUM UNIT NO.2



INITIAL EFFECTIVE DATE - 1 DECEMBER 1964

UNIT OPERATOR - CRESCENDO OIL & GAS LTD.

CROSSFIELD ELKTON Z GAS UNIT

Unit Operator - Bow Valley Industries Ltd.

Initial Effective Date - 1 November 1977

Participation Revised - 1 August 1987

\*Unitized Zone - Elkton Formation

\*Unitized Substance - Natural gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amoco Canada Petroleum Company Ltd.	12.7542
Bow Valley Industries Ltd.	44.4600
Grizzly Petroleum Limited	0.5342
Orthwein Properties Management	3.1887
Pembina Pipe Line Ltd.	38.0045
The Paddon Hughes Development Co. Ltd.	1.0584
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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T.26

**CROSSFIELD ELKTON Z GAS UNIT****ERC B**

INITIAL EFFECTIVE DATE - 1 NOVEMBER ,1977

UNIT OPERATOR- BOW VALLEY INDUSTRIES LTD.

EAST CROSSFIELD UNIT

Unit Operator - Amoco Canada Petroleum Company Ltd.

Initial Effective Date - 1 March 1964

Participation Revised - 1 June 1986

\*Unitized Zones - Elkton and Crossfield Formations

\*Unitized Substance - Condensate, gas and other hydrocarbons (except crude oil and coal)

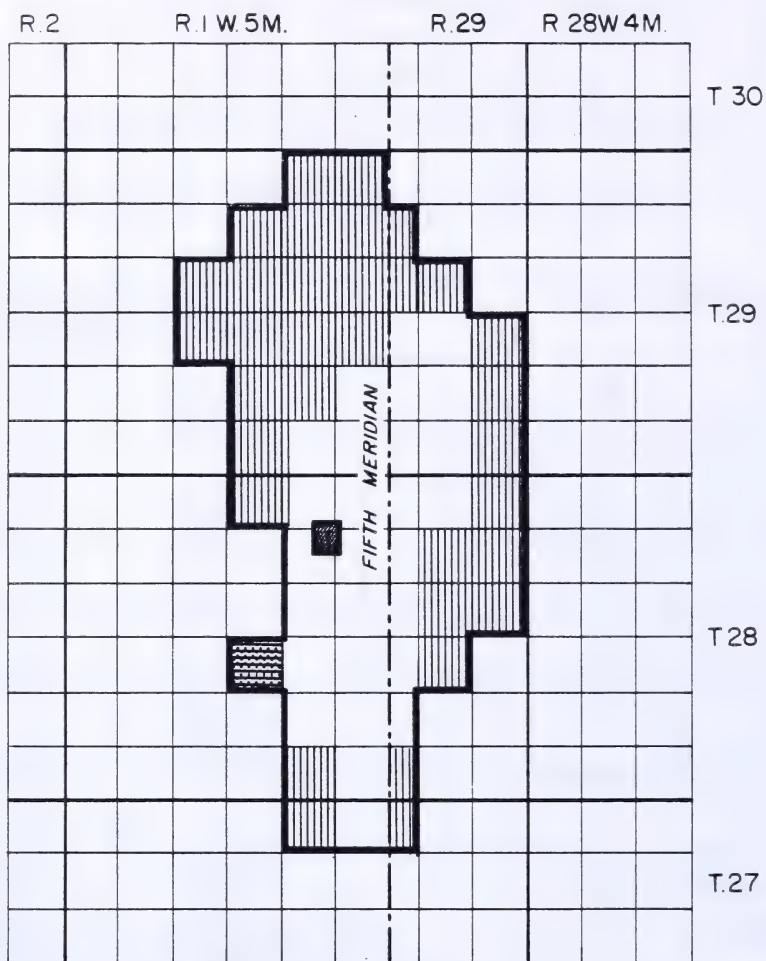
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>	
	<u>Elkton</u>	<u>D-1 (Crossfield)</u>
Amoco Canada Petroleum Company Ltd.	67.051692	39.01684
Bow Valley Industries Ltd.	0.655570	-
B.P. Resources Canada Limited	-	0.78628
Canadian Occidental Petroleum Ltd.	-	0.74596
Canadian Superior Oil Ltd.	4.986094	30.93459
Esso Resources Canada Limited	1.374657	2.72605
Gulf Canada Corporation	1.574096	3.01701
Home Oil Company Limited	0.107604	1.00558
Hudson's Bay Oil and Gas Company Limited	0.965841	4.82417
Mobil Oil Canada Ltd.	-	0.74596
Norcen Energy Resources Limited	-	0.42275
PanCanadian Petroleum Limited	0.729184	3.75806
Pembina Pipe Line Ltd.	0.655570	-
Petro-Canada Inc.	3.042884	0.83084
Placer CEGO Petroleum Limited	-	0.53670
Scurry-Rainbow Oil Ltd.	1.466219	1.61187
Suncor Inc.	-	0.82398
Texaco Canada Resources	15.810910	7.72232
Unocal Canada Limited	0.147520	0.15215
Vanguard Petroleum Ltd.	1.419645	0.33184
Wray, Arthur H.	0.012514	0.00705
	<u>100.000000</u>	<u>100.00000</u>

\* For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta





## EAST CROSSFIELD UNIT



INITIAL EFFECTIVE DATE - 1 MARCH 1964

UNIT OPERATOR-AMOCO CANADA PETROLEUM COMPANY LTD.

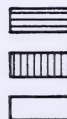
AREA OF CHANGE EFFECTIVE- 1 SEPTEMBER 1986

SEE UNIT AGREEMENT FOR DETAILS

UNITIZED ZONE: ELKTON FORMATION

CROSSFIELD FORMATION

ELKTON AND CROSSFIELD FORMATIONS



CYN-PEM CARDIUM "D" UNIT NO. 1

Unit Operator - Texaco Canada Resources

Initial Effective Date - 1 November 1986

Participation Revised - 1 June 1987

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>	
	<u>Interim</u>	<u>Final</u>
Accipiter Resources Ltd.	0.03013	0.01472
Amoco Canada Petroleum Company Ltd.	9.93869	7.24062
Bonanza Oil & Gas Ltd.	3.01281	1.47199
Canadian Superior Oil Ltd.	2.57758	0.91474
Carlyle Energy Ltd.	0.68700	0.42434
Encor Energy Corporation Inc.	0.52045	0.32147
Heather Oil Ltd.	0.43421	0.39792
Inverness Petroleum Ltd.	3.15628	1.54207
Joli Fou Petroleums Ltd.	0.55105	0.45709
Northern Development Company Ltd.	2.89230	1.41310
O. M. Sachkiw Holdings Ltd.	0.07217	0.04458
PanCanadian Petroleum Limited	3.28338	1.65531
Pencor Petroleum Limited	1.57814	0.77104
Penn West Resources Ltd.	0.16654	0.10287
Precambrian Shield Resources Limited	2.17972	2.32645
Redeagle Resources Ltd.	0.09038	0.04416
Texaco Canada Resources	62.06397	77.42434
Westcoast Petroleum Ltd.	3.28337	1.65530
Westmin Resources Limited	3.28337	1.65530
Wilderness Energy Limited	0.19846	0.12259
	<u>100.00000</u>	<u>100.00000</u>

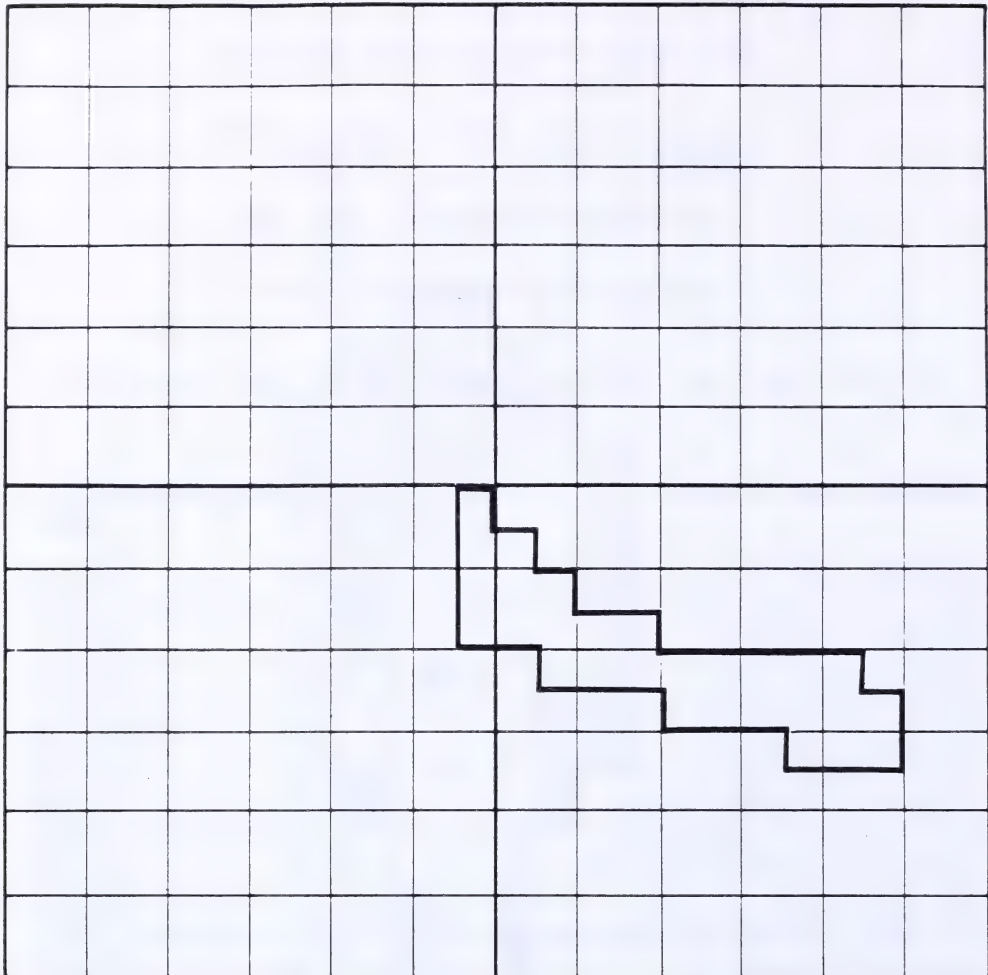
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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CYN-PEM CARDIUM 'D' UNIT NO.1

INITIAL EFFECTIVE DATE - 1 NOVEMBER 1986

UNIT OPERATOR- TEXACO CANADA RESOURCES

**ERCB**

CYN-PEM CARDIUM UNIT NO. 1

Unit Operator - Champlin Canada Ltd.

Initial Effective Date - 1 September 1966

Participation Revised - 1 July 1987

\*Unitized Zone - Cardium Formation

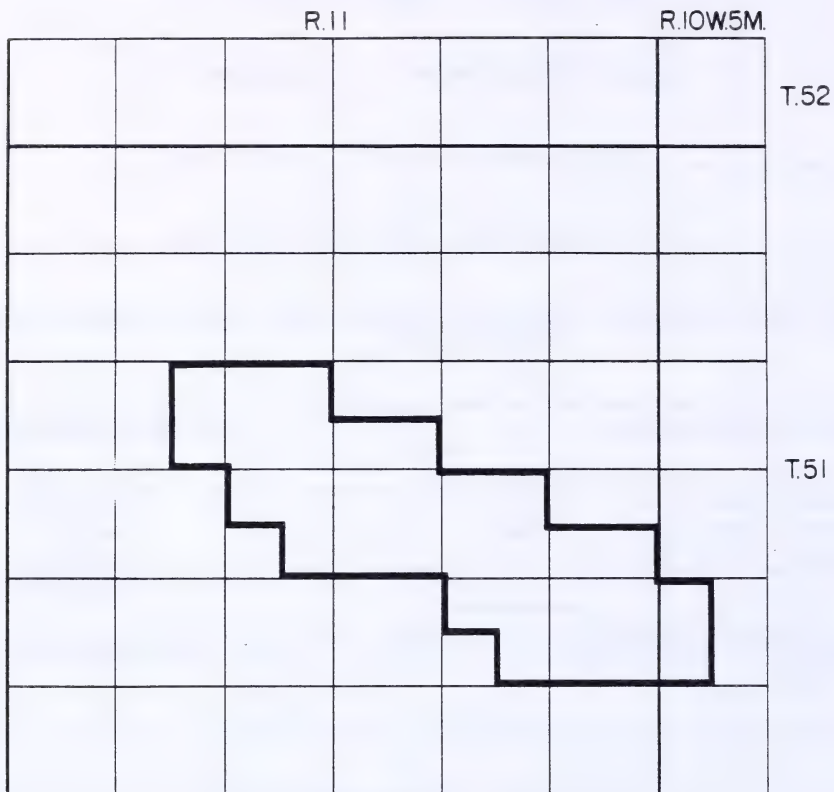
\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amoco Canada Petroleum Company Ltd.	23.93869
Champlin Canada Ltd.	35.90802
Musketeer Energy Ltd.	4.24527
Westcoast Petroleum Ltd.	35.90802
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



# CYN - PEM CARDIUM UNIT NO. 1

INITIAL EFFECTIVE DATE - SEPTEMBER 1, 1966

UNIT OPERATOR - CHAMPLIN CANADA LTD.



CRYSTAL VIKING UNIT NO. 1

Unit Operator - Westcoast Petroleum Ltd.

Initial Effective Date - 1 April 1984

Participation Revised - 1 August 1987

\*Unitized Zone - Viking Formation

\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

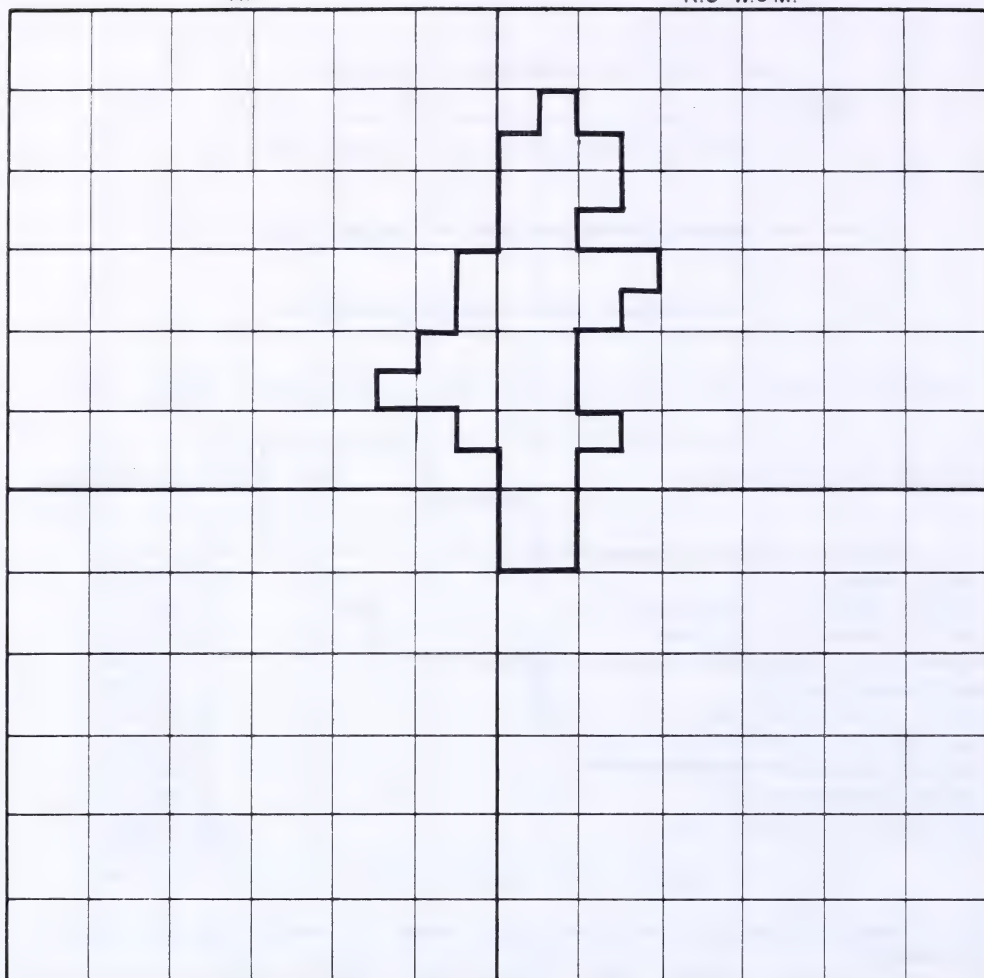
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amoco Canada Petroleum Company Ltd.	3.476389
Conoco Canada Ltd.	12.424678
Corrida Oils Ltd.	2.595777
Erskine Resources Limited	11.645278
Hudson's Bay Oil & Gas Company Limited	3.476390
Mark Resources Inc.	7.096990
Ocelot Industries Ltd.	3.032109
RTEC One Resources Inc.	7.787323
Sharata Resources Limited	1.861115
Synerg Resources Ltd.	1.861114
Westcoast Petroleum Ltd.	44.742837
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R.3 W.5 M.



T. 46

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**ERC**

INITIAL EFFECTIVE DATE- 1 APRIL 1984

UNIT OPERATOR- WESTCOAST PETROLEUM LTD.

CYN-PEM CARDIUM C UNIT

Unit Operator - Champlin Canada Ltd.

Initial Effective Date - 1 December 1986

Participation Revised - 1 July 1987

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum and other hydrocarbons (except coal) not including natural gas occurring in its free state

Working Interest Owners

Per Cent Participation

Amoco Canada Petroleum Company Ltd.  
Champlin Canada Ltd.  
Westcoast Petroleum Ltd.

15.24650  
77.84975  
6.90375  
100.00000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R.11 W.5 M.

T.51

**ERC**

UNIT OPERATOR- CHAMPLIN CANADA LTD.

DELBURNE GAS UNIT

Unit Operator - Altex Resources Ltd.

Initial Effective Date - 23 December 1972

Participation Revised - 1 July 1987

\*Unitized Zone - Belly River, Viking, Glauconite, and Basal Quartz Formations

\*Unitized Substance - Natural gas

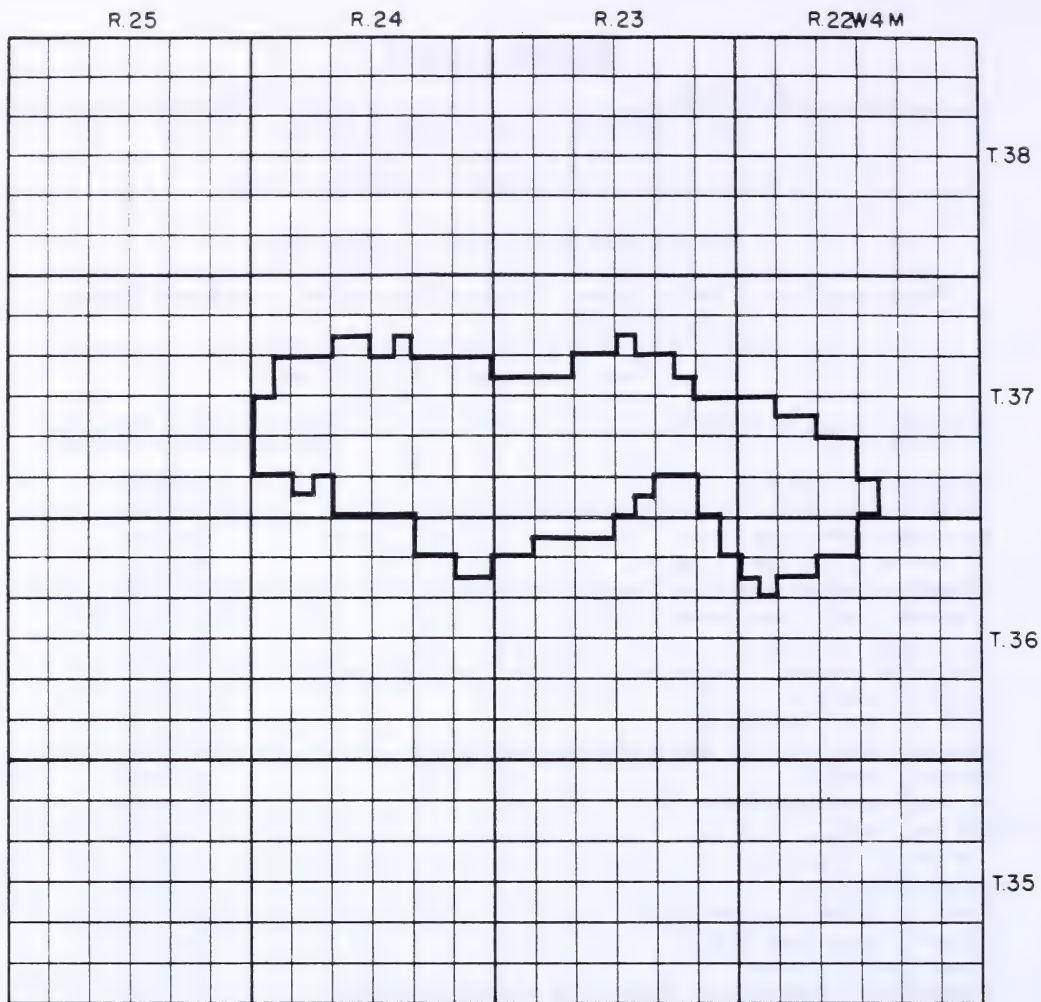
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Altex Resources Ltd.	33.58152
Amerada Minerals Corporation of Canada Ltd.	2.24033
Articana Resources Ltd.	0.11295
BP Resources Canada Limited	8.68414
Canadian Occidental Petroleum Ltd.	3.44930
Chevron Canada Resources Limited	0.87467
Delburne, Village of	0.12830
Francarep Canada Limited	0.30291
Gamble, James O.	0.09550
Gulf Canada Corporation	15.11923
Hudson's Bay Oil and Gas Company Limited	4.50640
Jensen, Jens O.	0.29190
Kerr-McGee Corporation	3.00589
Kobluk, Anna	0.00450
Little, William C.	0.11490
Madvid, Eunice M.	0.53560
Manning, John C., Estate of	1.28810
Maraval Resources Ltd.	0.01750
Maxus Energy Canada, Ltd.	6.39829
Netherlands Investment Company of Canada Limited	0.05510
OeMV Oil & Gas Ltd.	1.21167
PanCanadian Petroleum Limited	11.86378
Petrorep (Canada) Ltd.	1.21167
Quadra Oils Limited	0.05647
Red Deer, County of	0.01070
Rode, Phyllis F.	0.26780
Ruzycki, N. W.	0.00450
Saley, Jennie	0.00450
Smith, Arthur R. and Elizabeth T.	0.06665
Smith, Lyal T. and Clara E.	0.06665
Wainoco Oil Corporation	2.23945
Westbank Oils Limited	0.05648
Westcoast Petroleum Ltd.	2.13265
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta





# DELBURNE GAS UNIT

ERCB

INITIAL EFFECTIVE DATE - 23 DECEMBER 1972

UNIT OPERATOR - ALTEX RESOURCES LTD.

AREA OF CHANGE EFFECTIVE -



ERSKINE LEDUC D-3A UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 January 1985

Participation Revised - 1 September 1987

\*Unitized Zone - Leduc Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Blair Oil Company	0.08607
Canadian Superior Oil Ltd.	3.10484
Denton Energy Ltd.	0.00453
Dome Petroleum Limited	0.09060
Eso Resources Canada Limited	1.96844
Gulf Canada Resources Limited	54.88972
Home Oil Company Limited	21.73386
Inter-Rock Oil Co. of Canada	0.76118
Norcen Energy Resources Limited	8.06767
Ranger Oil Limited	4.62400
Texaco Canada Inc.	2.54379
Texaco Canada Resources	2.12530
	<u>100.00000</u>

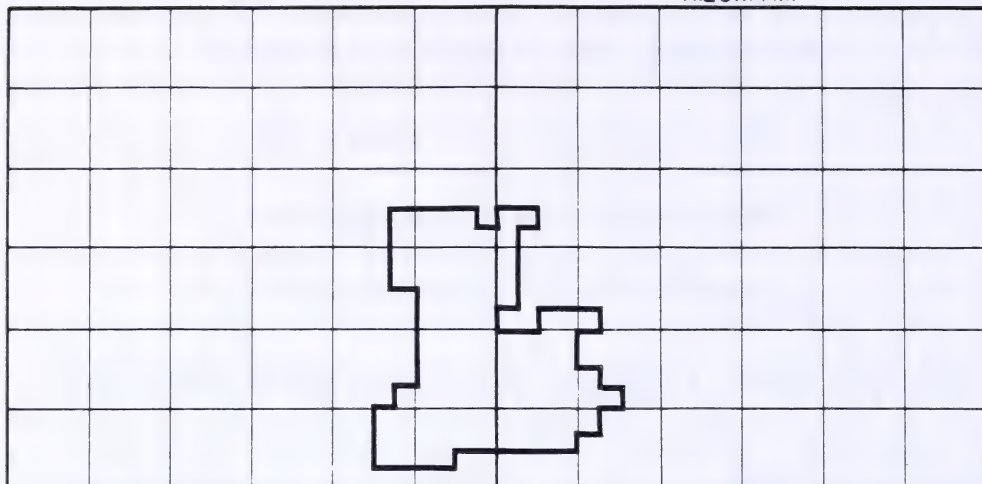
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R.21

R.20W.4M.



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T.39

ERSKINE LEDUC D-3A UNIT NO 1

INITIAL EFFECTIVE DATE - 1 JANUARY 1985

UNIT OPERATOR - GULF CANADA RESOURCES LIMITED

**ERCB**

ERSKINE GAS UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 July 1965

Participation Revised - 1 September 1987

\*Unitized Zone - Basal Blairmore

\*Unitized Substance - Natural gas and other hydrocarbons (except crude oil and coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Aberdeen Petroleum Limited	0.41281
Blair Oil Company	1.64895
Canadian Superior Oil Ltd.	2.74677
Canterra Energy Ltd.	0.91341
Denton Energy Ltd.	0.18322
Dome Petroleum Limited	0.41282
First Canada Financial Corporation Limited	0.09644
Gulf Canada Resources Limited	38.12635
Harvard International Resources Ltd.	0.91342
Home Oil Company Limited	19.22739
Knee Hill Energy Canada Ltd.	0.06714
Inter-Rock Oil Company of Canada	0.42408
Luscar Ltd.	0.21976
Minaki Minerals Ltd.	1.10376
Musketeer Energy Ltd.	1.83217
Norcen Energy Resources Limited	12.33999
Scurry-Rainbow Oil Limited	3.67381
Texaco Canada Inc.	0.50653
Texaco Canada Resources	5.24072
Total Petroleum Canada Ltd.	3.69608
United Reef Petroleums	0.10454
Webb International Minerals Inc.	6.04555
Westcord Resources Ltd.	0.06429
	<u>100.00000</u>

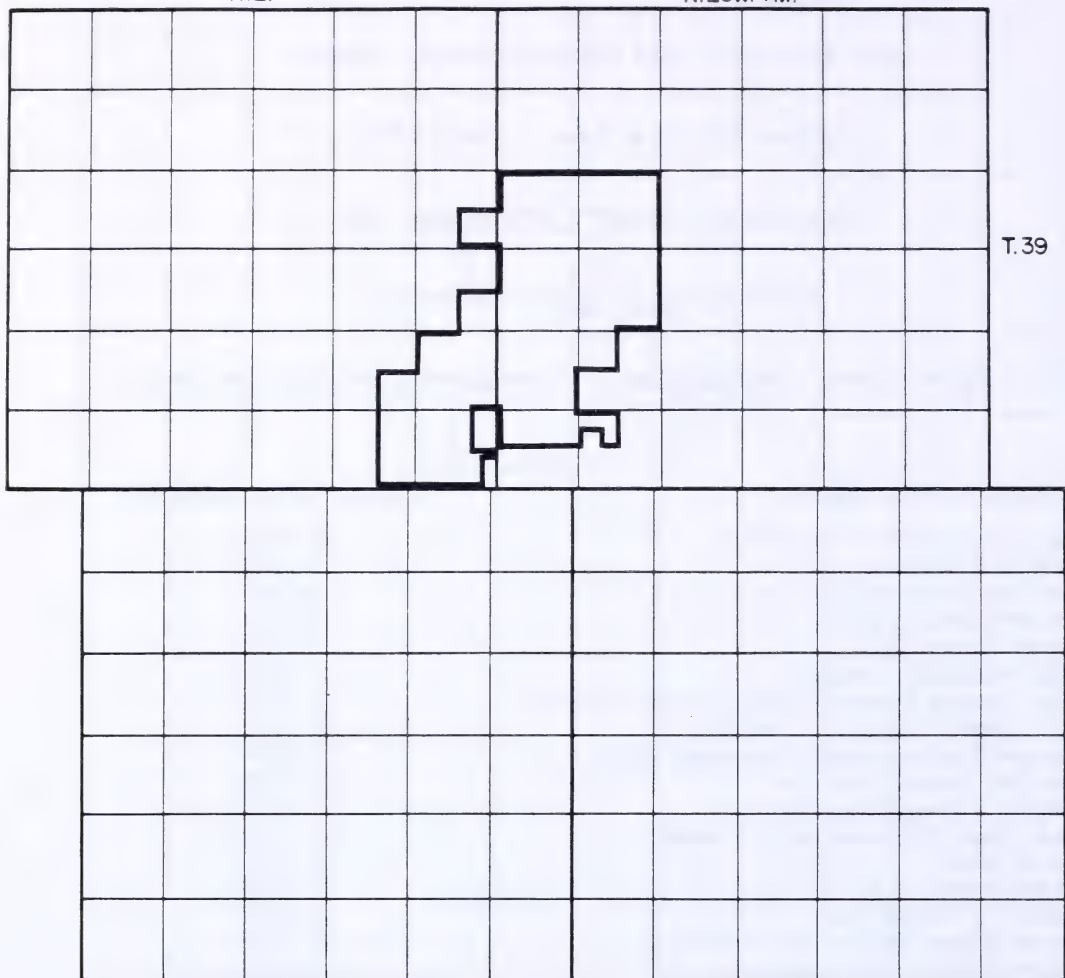
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R.21

R.20W.4M.



ERSKINE GAS UNIT NO.1

**ERC**

INITIAL EFFECTIVE DATE- 1 JULY 1965

UNIT OPERATOR- GULF CANADA RESOURCES LIMITED



FENN BIG VALLEY VIKING GAS UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 May 1980

Participation Revised - 1 September 1987

\*Unitized Zone - Viking Formation

\*Unitized Substance - Natural gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Adeco Drilling and Engineering Co. Ltd.	0.25935
Albert Allison	0.94778
Anned Resources Ltd.	0.12965
Carolyn M. Bryan	0.00500
Claymore Minerals Ltd.	1.96275
Corexcal, Inc.	0.49817
D'Eldona Resources Ltd.	1.42167
Encor Energy Corporation Inc.	1.29600
Esso Resources Canada Limited	1.19709
First Calgary Petroleums Ltd.	0.57293
Gulf Canada Resources Limited	22.19162
Hudson's Bay Oil and Gas Company Limited	1.46311
Husky Oil Operations Ltd.	1.27690
J. M. Huber Corporation	0.68010
Kerr-McGee Corporation	2.31238
Knox Industries Inc.	1.30198
Lario Oil & Gas Company	3.03792
Mohawk Oil Co. Ltd.	4.43753
Gail F. Moulton Jr.	0.00499
Willis R. Moulton	0.00499
Musketeer Energy Ltd.	0.00195
Nicolas Gas & Oil Ltd.	2.13342
Oriole Energy Eastern Ltd.	1.97385
Pacific Lighting Exploration Company	0.99634
PanCanadian Petroleum Limited	22.38722
Penn West Petroleum Ltd.	0.00172
Pension Fund Energy Resources Limited	2.36945
Petrorep (Canada) Ltd.	0.49818
Phillips Petroleum Canada Ltd.	0.48030
Ranger Oil Limited	9.70105

Working Interest OwnersPer Cent Participation

Seagull Resources Limited	0.35107
Shell Canada Limited	2.10300
Teepee Petroleums Ltd.	1.97385
Texaco Canada Resources	2.87665
Tri Link Resources Ltd.	0.21250
Universal Exploration Ltd.	0.67217
Westburn Petroleum & Minerals Ltd.	4.33990
Western Decalta Petroleum (1977) Limited	1.89279
Westmin Resources Limited	0.03268
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R19 W4M

**ERCB**

UNIT OPERATOR- GULF CANADA RESOURCES LIMITED



FLAT LAKE GAS UNIT

Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 March 1971

Participation Revised - 1 June 1987

\*Unitized Zone - Wabamun, Wabiskaw and Colony Formations

\*Unitized substance - Gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Canadian Superior Oil Ltd.	12.5719
Canterra Energy Ltd.	23.2431
Esso Resources Canada Limited	39.4353
Harvard International Resources Ltd.	23.2431
Oakfern Petroleums Ltd.	0.0826
Westcoast Petroleum Ltd.	1.4240
	<u>100.0000</u>

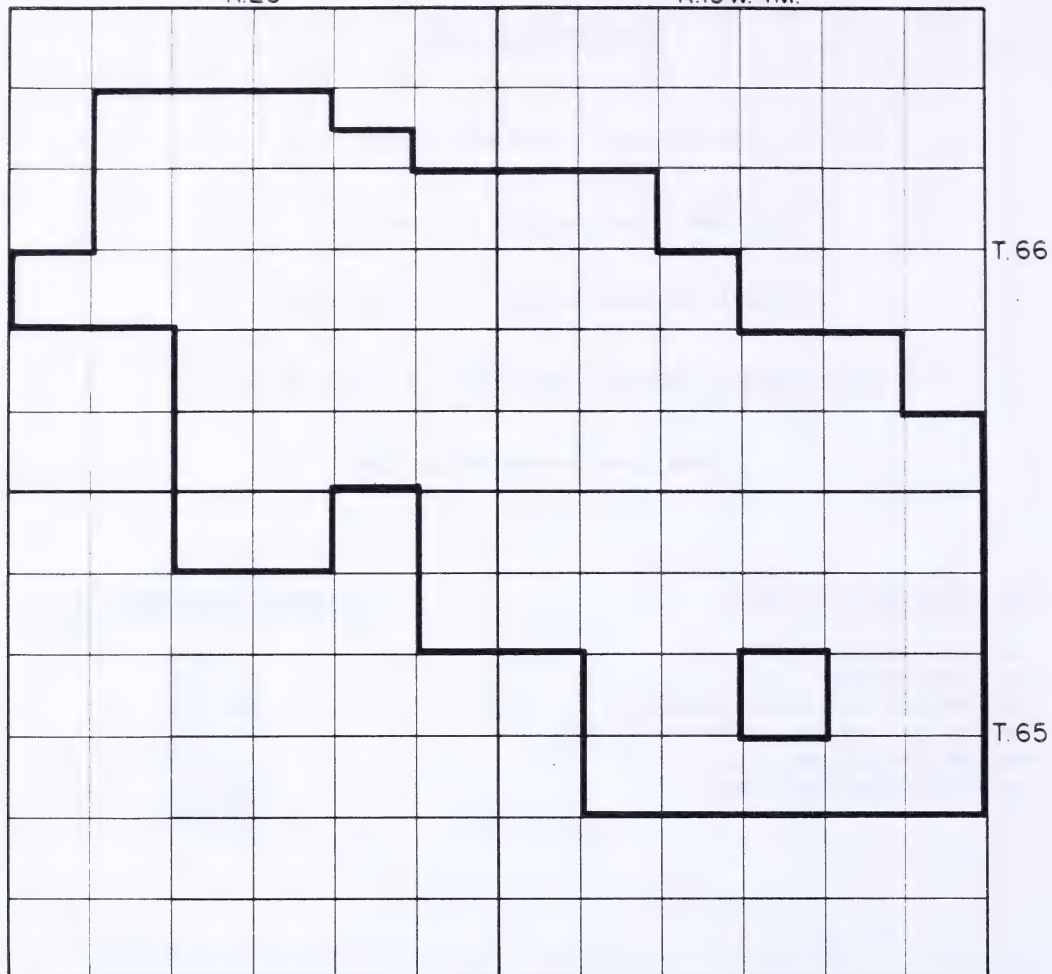
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



R.19W.4M.



INITIAL EFFECTIVE DATE - MARCH 1, 1971

UNIT OPERATOR - CANTERRA ENERGY LTD.

GHOST PINE UNIT

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 6 November 1967

Participation Revised - 1 September 1987

\*Unitized Zone - Basal Belly River, Viking, Upper Mannville, Glauconite,  
Basal Quartz, Pekisko and Banff

\*Unitized Substance - Gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Adanac Oil & Gas Limited	0.002990
Amerada Minerals Corporation of Canada Ltd.	4.215760
Atcor Ltd.	0.491583
Baxter Lake Holding Company Ltd.	0.021518
BHP Petroleum (Canada) Inc	1.590403
Black Cat Oil and Gas Limited	0.155421
Bow River Pipelines Ltd.	1.301243
BP Resources Canada Limited	3.543678
Canadian Superior Oil Ltd.	0.722905
Chevron Canada Resources Limited	0.144573
Dome Petroleum Limited	0.154478
Gulf Canada Resources Limited	28.931492
J.M. Huber Corporation	4.919627
Hudson's Bay Oil and Gas Company Limited	3.455511
Husky Oil Operations Ltd.	1.735001
Mobil Oil Canada, Ltd.	3.513351
Mosswood Oil and Gas Ltd.	0.115660
Murphy Oil Company Ltd.	3.149964
Musketeer Energy Ltd.	2.062418
Norcen Energy Resources Limited	9.802104
Bryan W. Payne	3.501238
Pembina Resources Ltd.	10.187655
Petro-Canada Inc.	0.467172
Prairie Oil Royalties Company Ltd.	1.360081

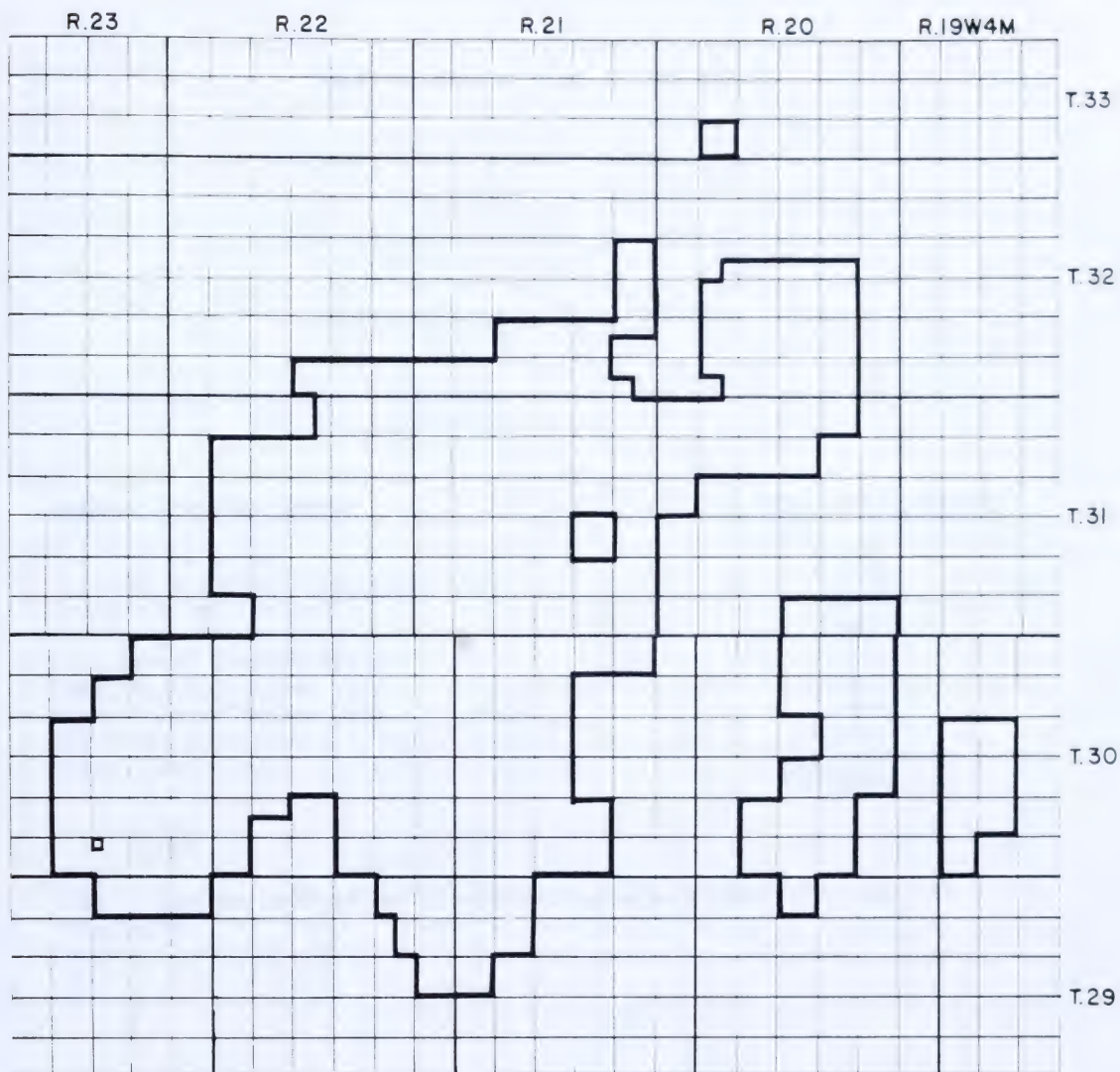
Working Interest OwnersPer Cent Participation

Sabre Petroleum Ltd.	1.776494
Scotia Oils Limited	0.216869
Spruce Hills Production Company, Inc.	1.750615
Suncor Inc.	6.607413
Western Decalta Petroleum (1977) Limited	4.102783
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# GHOST PINE UNIT

INITIAL EFFECTIVE DATE - 6 NOVEMBER 1967

UNIT OPERATOR - GULF CANADA RESOURCES LIMITED







GILBY JURASSIC "B" UNIT NO. 1

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 October 1965

Participation Revised - 1 July 1987

\*Unitized Zone - Jurassic B Sand

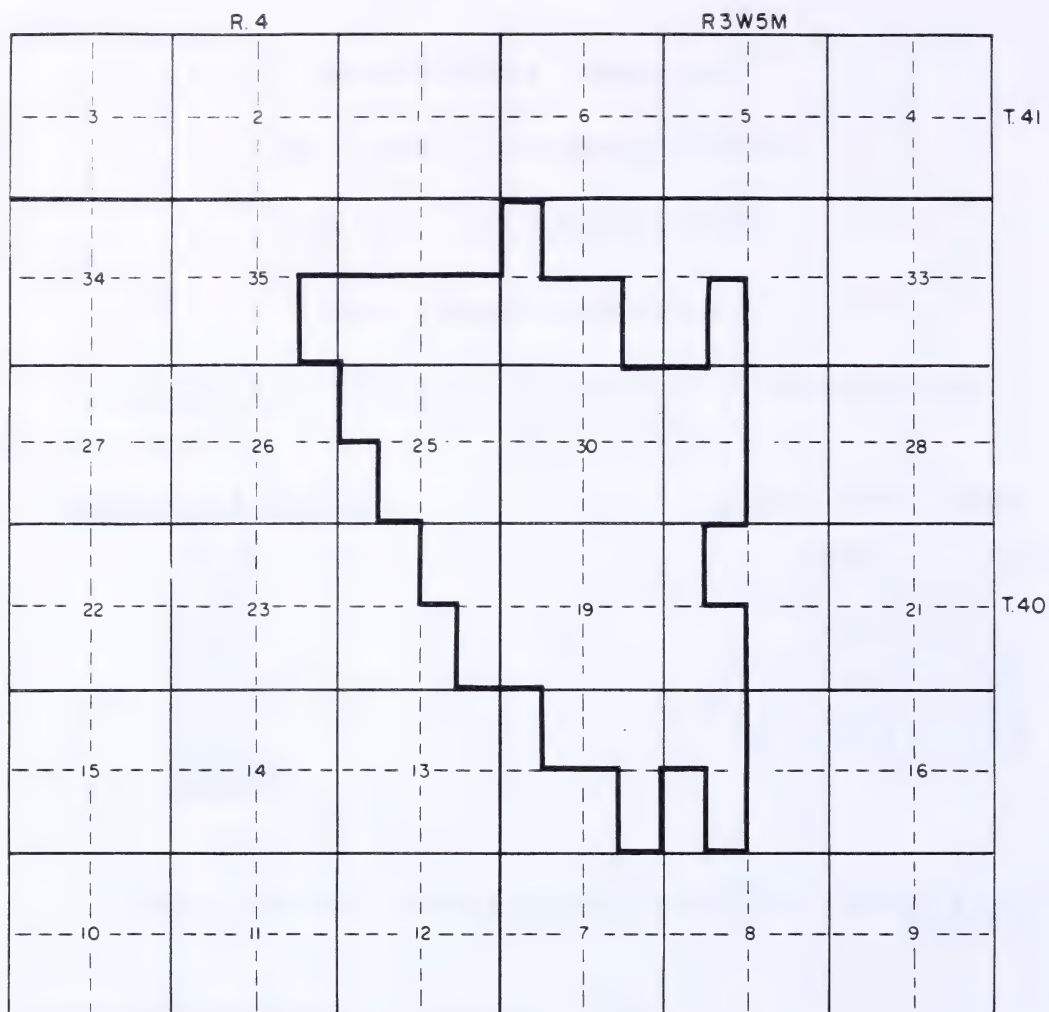
\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Blair Oil Company	2.5369
Canadian Occidental Petroleum Ltd.	5.5405
Denison Mines Limited	4.8419
Mr. F. G. Gannon	0.1562
Gulf Canada Corporation	8.0472
Husky Oil Operations Ltd.	53.6915
Maxus Energy Canada, Ltd.	2.0615
Musketeer Energy Ltd.	2.6931
Petro-Canada Inc.	20.4312
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



# GILBY JURASSIC 'B' UNIT NO.1



INITIAL EFFECTIVE DATE - 1 OCTOBER 1965

UNIT OPERATOR - PETRO-CANADA INC.

GILBY VIKING "E" UNIT NO. 1

Unit Operator - Dome Petroleum Limited

Initial Effective Date - 1 April 1980

Participation Revised - 1 July 1987

\*Unitized Zone - Viking Sandstone

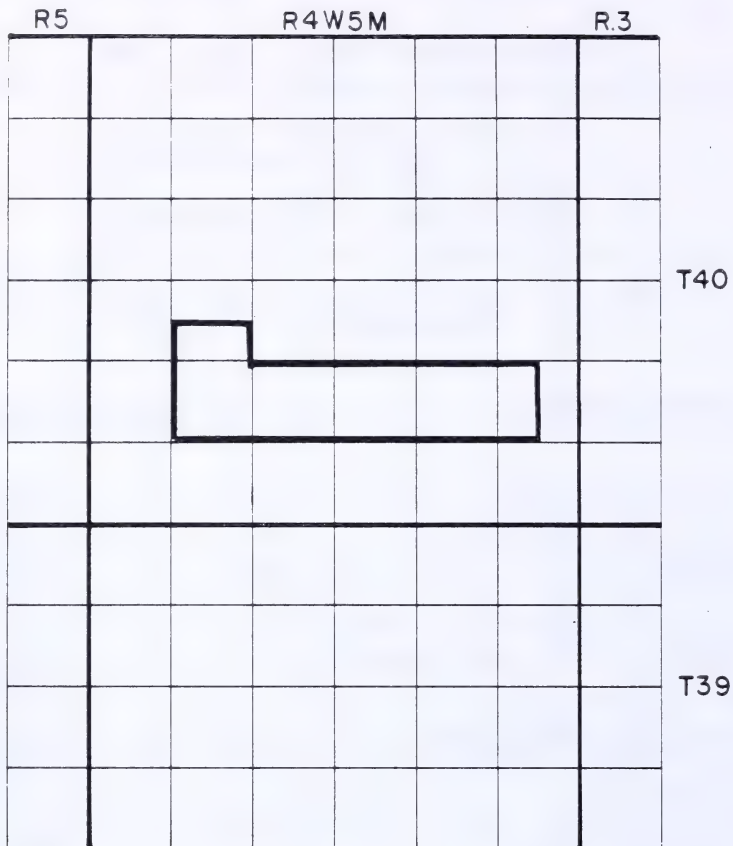
\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Banqwest Resources Limited	0.899081
BP Resources Canada Limited	12.587807
Canadian Occidental Petroleum Ltd.	17.284719
Canpar Holdings Ltd.	22.668050
Caribe Petroleums Inc.	0.303440
Diamond Shamrock Exploration of Canada, Ltd.	1.430054
Dome Petroleum Limited	11.064167
Glacier Oils Ltd.	0.303440
J.M. Huber Corporation	4.136905
Norcen Energy Resources Limited	14.202222
PanCanadian Petroleum Limited	8.892846
Resman Holdings Ltd.	1.798162
Simcoe Resources Ltd.	0.116881
Viking Exploration Ltd.	0.175321
Westmin Resources Limited	4.136905
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances  
see Unit Documents.

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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GILBY VIKING "E" UNIT NO. I

UNIT OPERATOR — DOME PETROLEUM LIMITED

INITIAL EFFECTIVE DATE ——— APRIL 1, 1980

GOOSE RIVER UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 July 1968

Participation Revised - 1 September 1987

\*Unitized Zone - Swan Hills Member

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

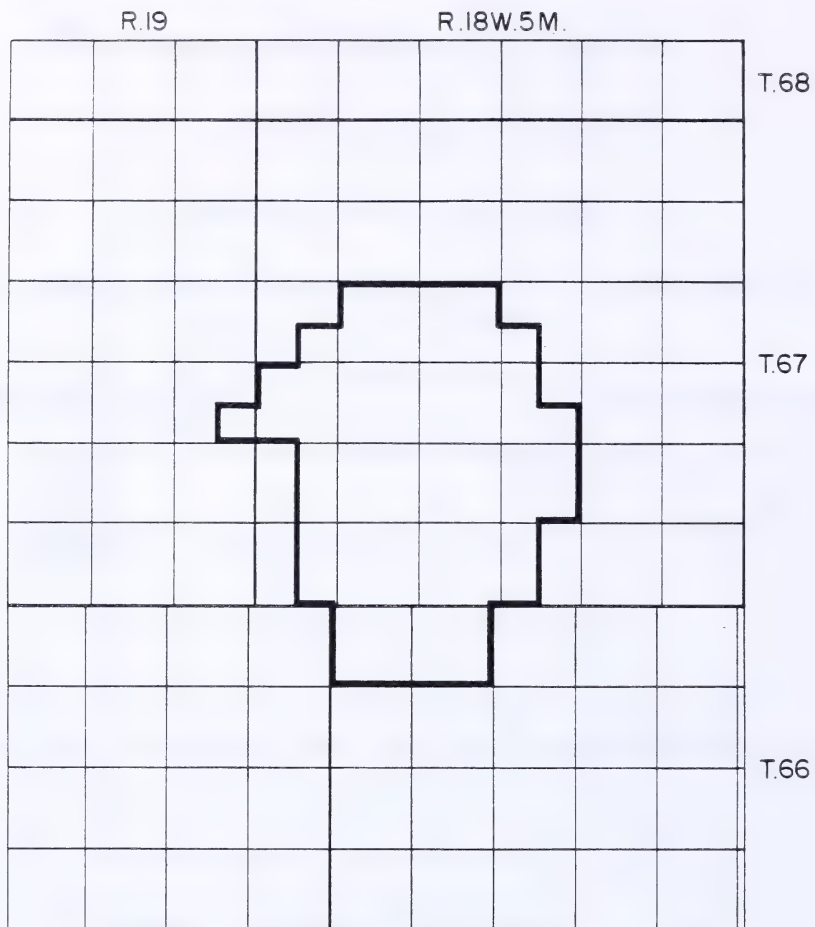
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Esso Resources Canada Limited	39.0000
Gulf Canada Resources Limited	54.5000
Suncor Inc.	3.2500
Texaco Canada Resources	3.2500
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta





### GOOSE RIVER UNIT NO.1

INITIAL EFFECTIVE DATE - JULY 1, 1968

UNIT OPERATOR — GULF CANADA RESOURCES LIMITED

HACKETT MANNVILLE "A" UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 14 November 1964

Participation Revised - 1 September 1987

\*Unitized Zone - Mannville A Sandstone

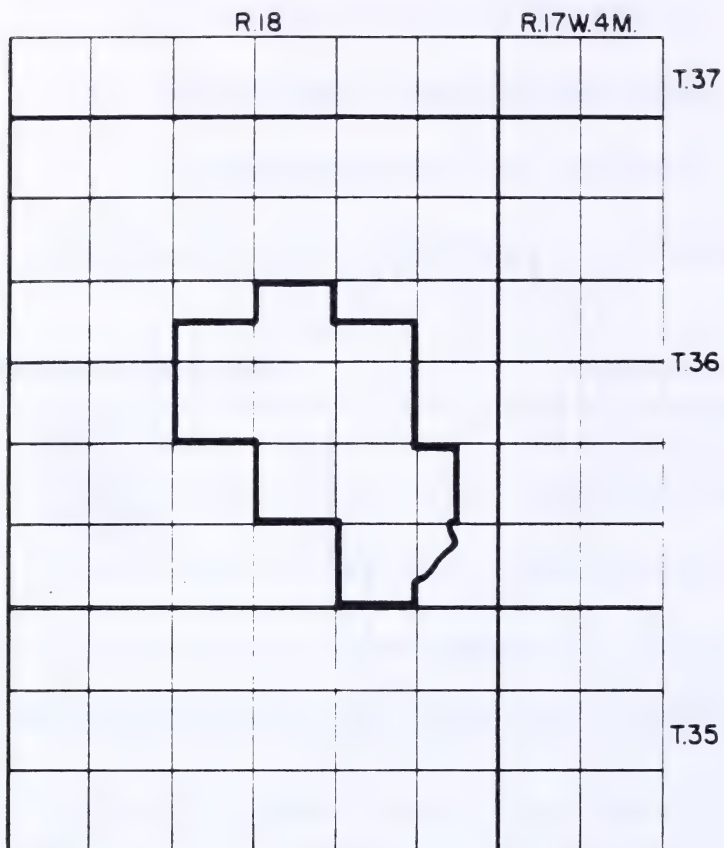
\*Unitized Substance - Natural gas, condensate and all other hydrocarbons  
(except crude oil and coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Canadian Occidental Petroleum Ltd.	42.09310
Esso Resources Canada Limited	13.76789
Gulf Canada Resources Limited	42.09310
PanCanadian Petroleum Limited	2.04591
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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**HACKETT MANNVILLE A UNIT NO.1**

INITIAL EFFECTIVE DATE - NOVEMBER 14, 1964

UNIT OPERATOR - GULF CANADA RESOURCES LIMITED

HALKIRK UPPER MANNVILLE I POOL UNIT

Unit Operator - PanCanadian Petroleum Limited

Initial Effective Date - 1 July 1987

Participation Revised - 1 September 1987

\*Unitized Zone - Glauconitic Zone

\*Unitized Substance - Petroleum and other hydrocarbons (except coal) not including natural gas occurring in its free state

Working Interest Owners

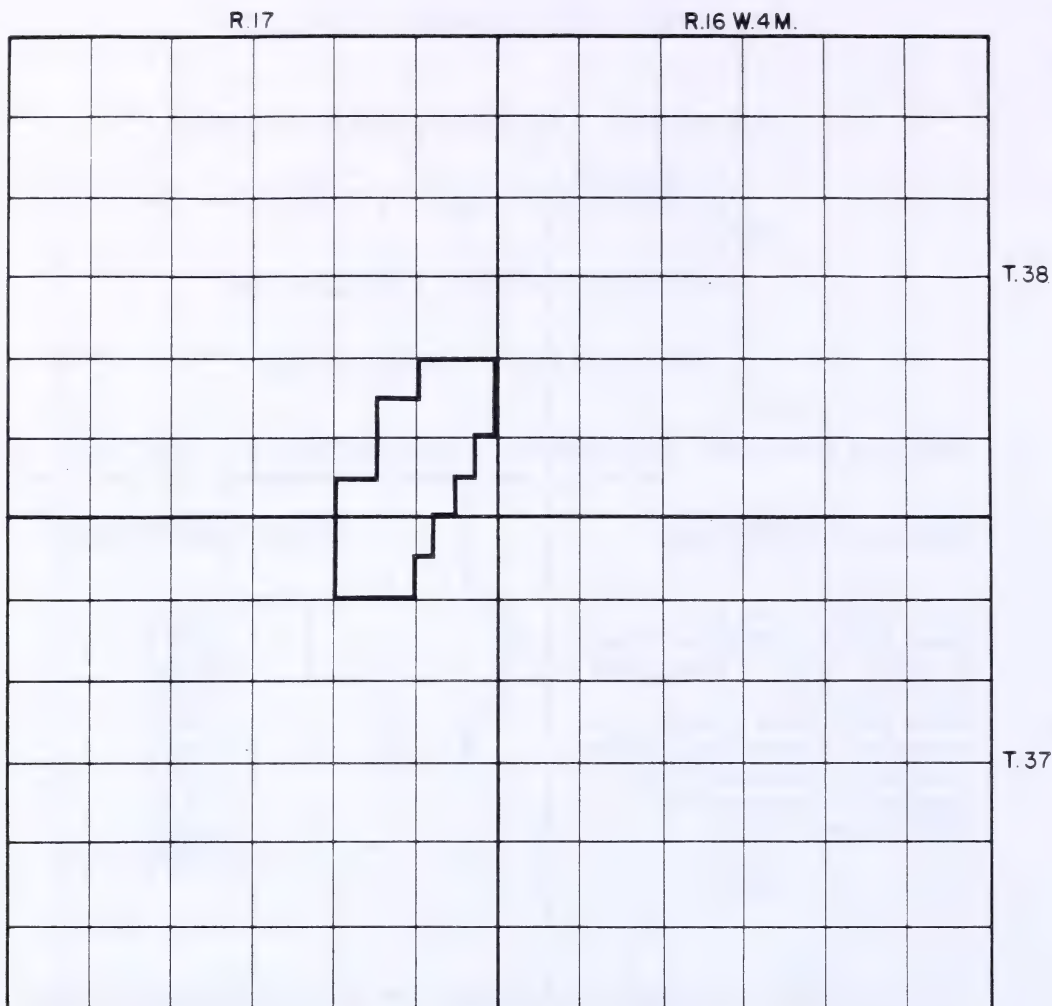
Per Cent Participation

Airtex Industries Ltd.	12.65200
Amoco Canada Petroleum Company Ltd.	8.14579
R. Bruce Bailey & Associates Ltd.	0.05316
Corexcal, Inc.	0.01475
Keles Production Company Ltd.	1.00047
PanCanadian Petroleum Limited	76.70315
Usherville Resources Ltd.	1.00047
Vanguard Petroleum Ltd.	0.00492
297608 Alberta Inc.	0.42529
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# HALKIRK UPPER MANNVILLE I POOL UNIT



INITIAL EFFECTIVE DATE- 1 JULY 1987

UNIT OPERATOR- PANCANADIAN PETROLEUM LIMITED



HOUSE MOUNTAIN UNIT NO. 2

Unit Operator - Shell Canada Limited

Initial Effective Date - 1 November 1967

Participation Revised - 1 July 1987

\*Unitized Zone - Swan Hills Member

\*Unitized Substances - Petroleum, natural gas and other hydrocarbons  
(except Coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Canadian Superior Oil Ltd.	15.00569
Chair Resources Inc.	2.68255
Chevron Canada Resources Limited	14.11088
Corvair Oils Ltd.	0.22712
Esso Resources Canada Limited	1.14985
Gulf Canada Corporation	2.52226
Musketeer Energy Ltd.	8.70919
Petrobec Limited	4.35460
Placer CEGO Petroleum	0.75092
Shell Canada Limited	50.48694
	<u>100.00000</u>

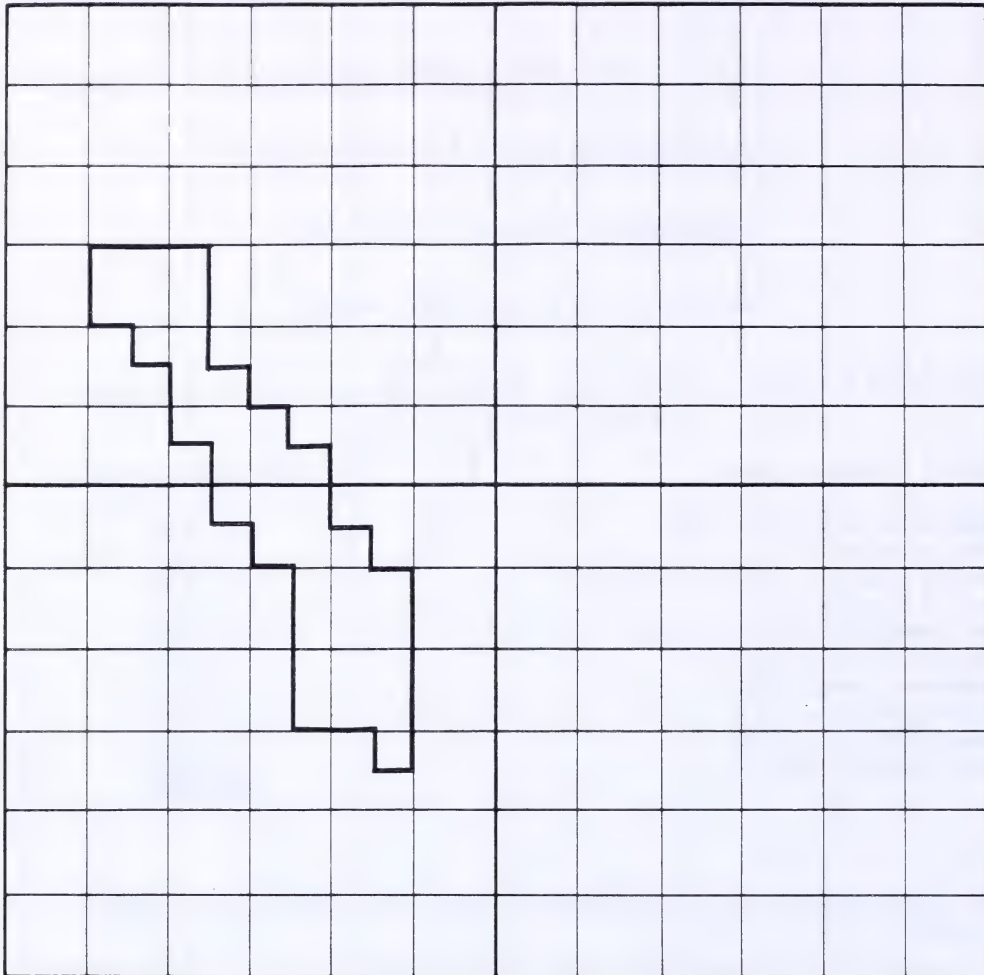
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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## HOUSE MOUNTAIN UNIT NO.2

INITIAL EFFECTIVE DATE- 1 NOVEMBER 1967

UNIT OPERATOR- SHELL CANADA LIMITED



HOUSE MOUNTAIN UNIT NO. 3

Unit Operator - Shell Canada Limited

Initial Effective Date - 1 November 1967

Participation Revised - 1 July 1987

\*Unitized Zone - Swan Hills Member

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
BHP Petroleum (Canada) Inc.	2.44170
BP Resources Canada Limited	20.79561
Canada Northwest Energy Limited	2.39884
Corvair Oils Ltd.	2.39884
Dome Petroleum Limited	22.38913
Provo Gas Producers Limited	11.19456
Shell Canada Limited	38.38132
	<u>100.00000</u>

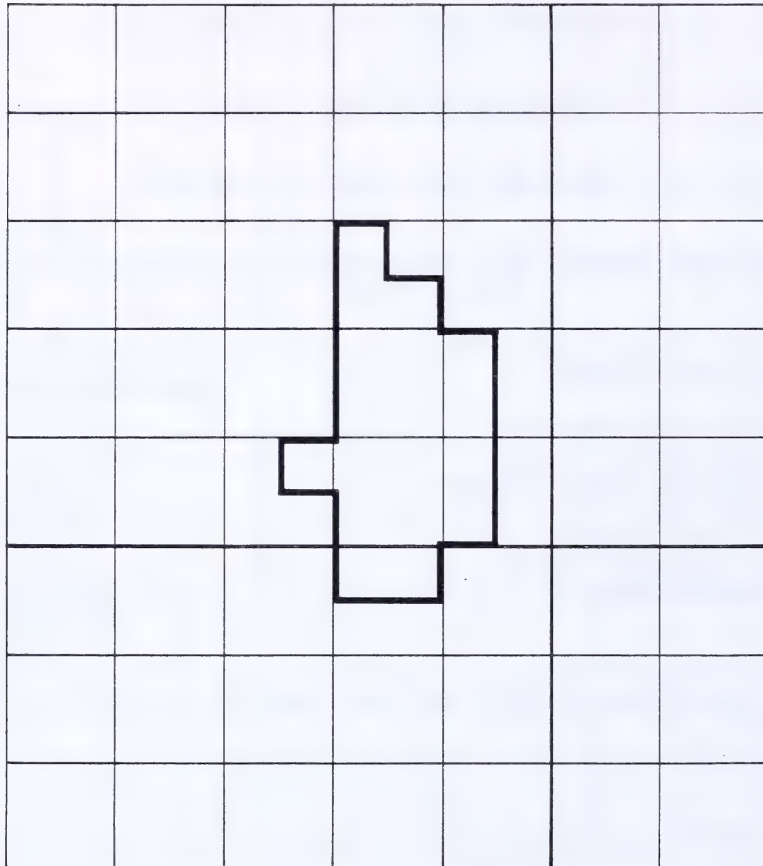
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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### HOUSE MOUNTAIN UNIT NO 3

INITIAL EFFECTIVE DATE - NOVEMBER 1, 1967

UNIT OPERATOR - SHELL CANADA LIMITED

JOARCAM VIKING UNIT NO. 1

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 March 1963

Participation Revised - 1 July 1987

\*Unitized Zone - Viking Formation

\*Unitized Substance - Petroleum natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Bankeno Resources Limited	0.8775
Canadian Superior Oil Ltd.	4.8274
Chevron Canada Resources Limited	5.2109
Esso Resources Canada Limited	62.3690
Gulf Canada Corporation	6.9288
Home Oil Company Limited	4.8274
Hudson's Bay Oil and Gas Company Limited	3.4600
Norcen Energy Resources Limited	1.0586
PanCanadian Petroleum Limited	0.1844
Petro-Canada Inc.	1.2203
Scurry-Rainbow Oil Limited	0.2687
Shell Canada Limited	5.2941
Suncor Inc.	3.4729
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

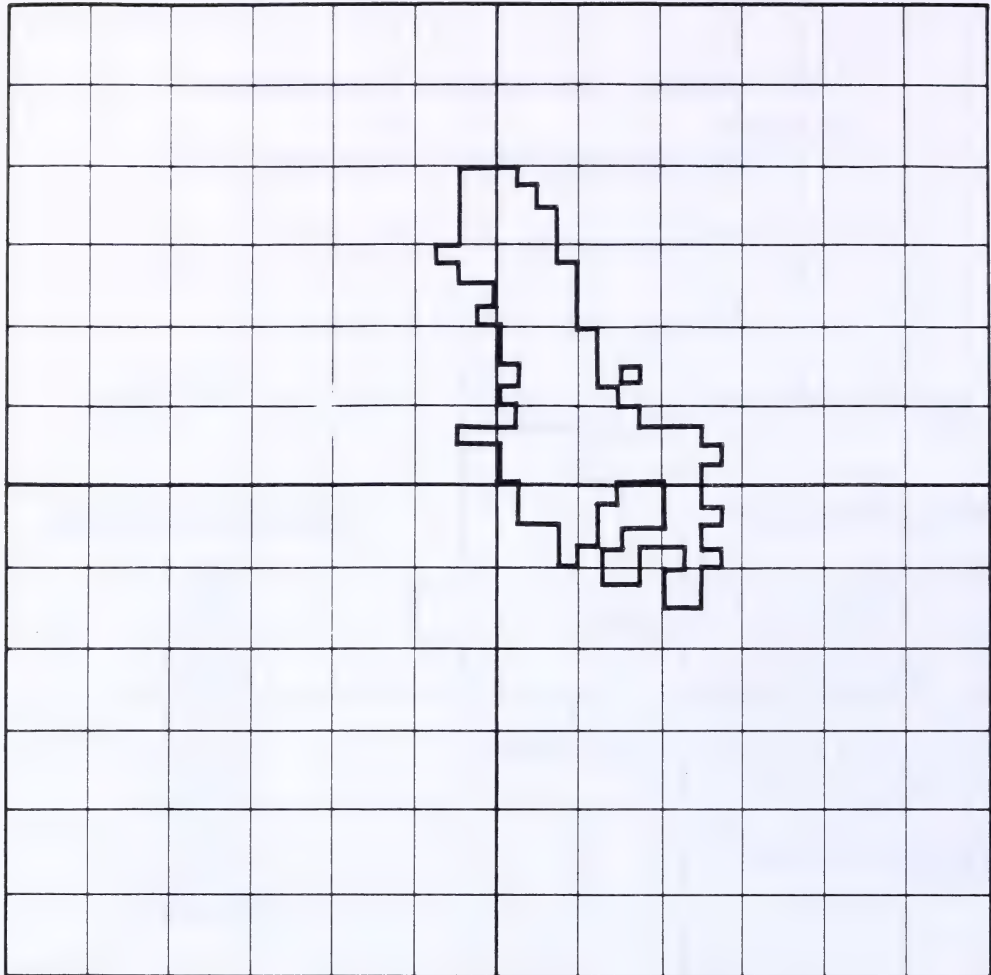
(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# JOARCAM VIKING UNIT NO.1



INITIAL EFFECTIVE DATE - 1 MARCH 1963

UNIT OPERATOR - ESSO RESOURCES CANADA LIMITED

KAYBOB SOUTH BEAVERHILL LAKE GAS UNIT NO. 2

Unit Operator - Hudson's Bay Oil and Gas Company Limited

Initial Effective Date - 31 August 1969

Participation Revised - 1 September 1987

\*Unitized Zone - Beaverhill Lake Formation

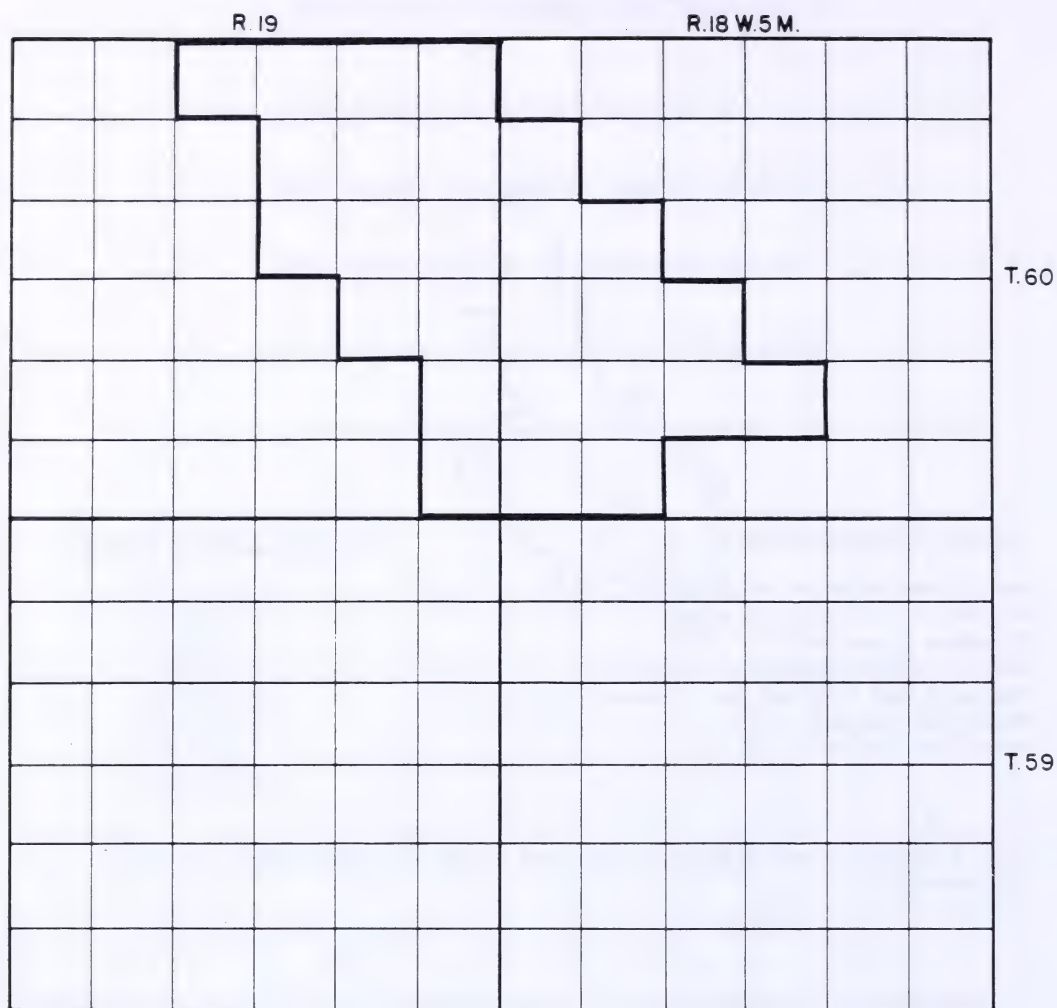
\*Unitized Substance - Natural gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amoco Canada Petroleum Company Ltd.	23.2005560
BP Resources Canada Limited	10.7323180
Canadian Superior Oil Ltd.	6.4502470
Chevron Canada Resources Limited	22.0818940
Hudson's Bay Oil and Gas Company Limited	23.2005560
Mobil Oil Canada, Ltd.	5.0542060
Petro-Canada Inc.	9.2802230
	<u>100.0000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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KAYBOB SOUTH BEAVERHILL LAKE GAS UNIT NO.2 **ERCB**

INITIAL EFFECTIVE DATE - 31 AUGUST 1969

UNIT OPERATOR - HUDSON'S BAY OIL AND GAS COMPANY LIMITED

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 October 1960

Participation Revised - 1 July 1987

\*Unitized Zone - Nisku D-2 Formation

\*Unitized Substance - Crude oil, natural gas, condensate and all other hydrocarbons (except coal)

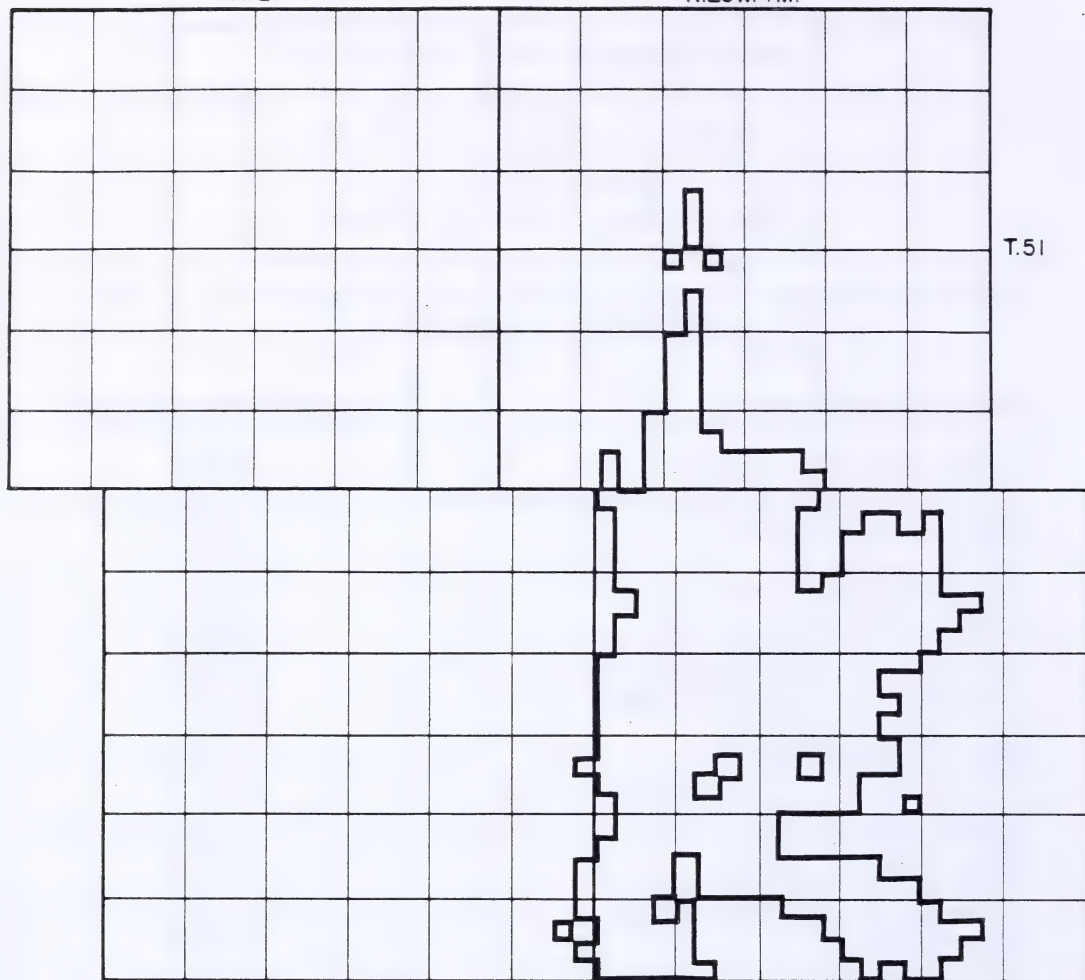
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Bankeno Resources Limited	0.09070
Bow Valley Industries Ltd.	0.50960
Canadian Superior Oil Ltd.	0.93306
Canadian Westgrowth Ltd.	0.36930
Canterra Energy Ltd.	0.45250
Centipede Holdings Ltd.	0.45250
Chair Holdings Limited	1.60810
Chevron Canada Resources Limited	0.39120
Esso Resources Canada Limited	69.15510
Guaranty Trust Company of Canada	0.32070
Gulf Canada Corporation	0.27845
Home Oil Company Limited	3.92391
Hudson's Bay Oil and Gas Company Limited	4.38150
Husky Oil Operations Ltd.	1.32630
Magnum Resources Ltd.	0.13360
Mutual Holdings Limited	0.62910
Norcen Energy Resources Limited	1.19530
Norcen Energy Resources Limited	0.43010
Petro-Canada Inc.	1.34500
Petro-Canada Inc.	0.54950
Sereda Oils Ltd.	0.65350
Shell Canada Limited	2.76863
Suncor Inc.	1.30700
Texaco Canada Resources	0.27845
United Canso Oil and Gas Ltd.	1.44390
Well Operators Limited	2.29610
Westburne Petroleum and Minerals Ltd.	2.49340
Western Decalta Petroleum (1977) Limited	0.28350
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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**ERC**

UNIT OPERATOR – ESSO RESOURCES CANADA LIMITED



LEDUC-WOODBEND D-3 UNIT

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 October 1960

Participation Revised - 1 July 1987

\*Unitized Zone - Leduc (D-3) Unit Formations

\*Unitized Substance - Crude oil, natural gas, condensate and all other hydrocarbons (except coal)

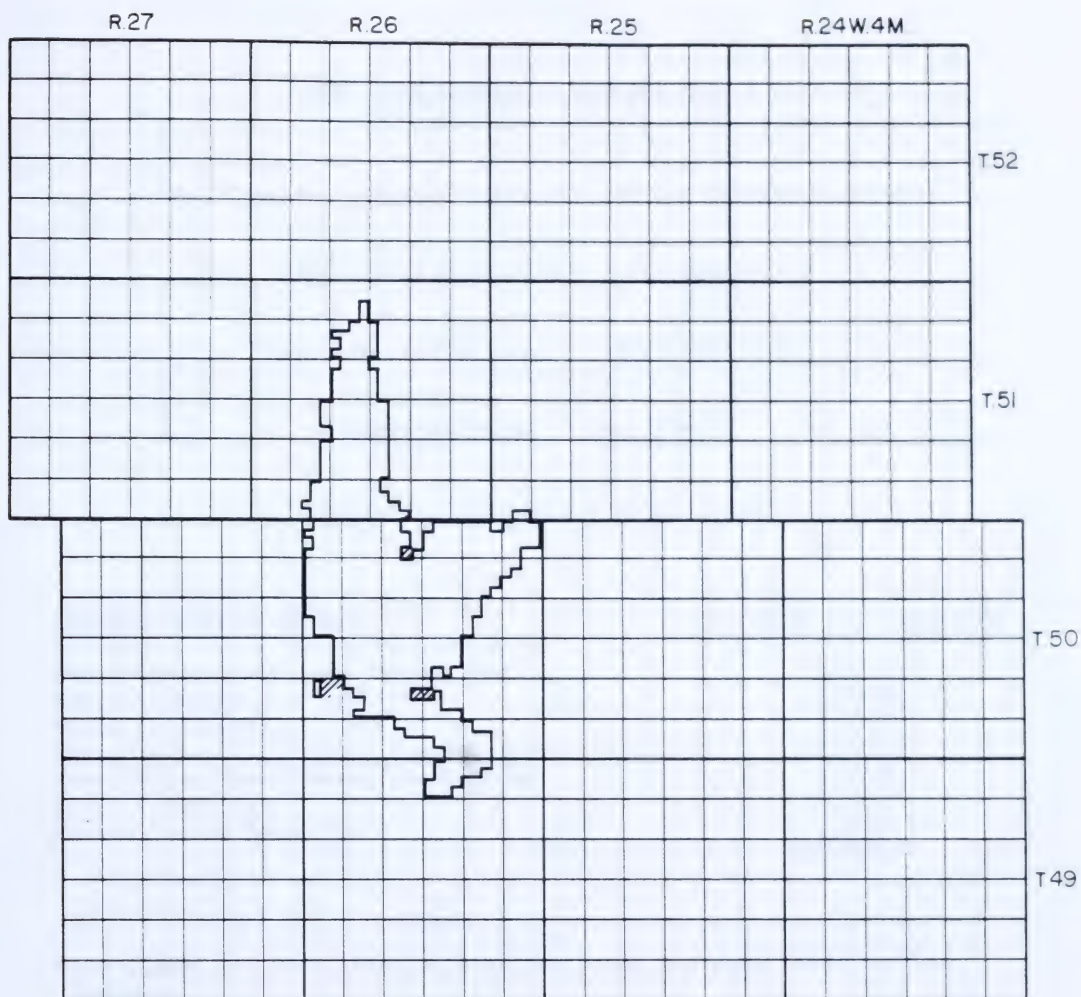
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Bankeno Resources Ltd.	0.0029147
Bernard Hemsing	0.0046316
Canadian Superior Oil Ltd.	0.8614885
Canadian Westgrowth Ltd.	0.2949521
Canterra Energy Limited	0.4500324
Centipede Holdings Ltd.	0.4500324
Chair Holdings Ltd.	1.3447115
Chevron Canada Resources Limited	0.0690604
Encor Energy Corporation Inc.	0.2146458
Encore Resources Ltd.	0.0162387
Esso Resources Canada Limited	82.0773563
B. H. Gaboury Holdings Ltd.	0.0129910
Home Oil Company Limited	3.7839568
Hudson's Bay Oil and Gas Company Limited	2.2100060
Morrison Petroleums Ltd.	0.0129910
Musketeer Energy Ltd.	0.2407490
Mutual Holdings Limited & Associates	0.1726292
NV Resources Corporation Ltd.	0.0081193
Nevada Oil & Gas Ltd.	0.0081193
Norcen Energy Resources Limited	
Norcen, Western Properties	0.0034971
Norcen	2.1556083
Normandie Resource Corporation	2.1591054
Orbit Oil & Gas Ltd.	0.0684711
PanCanadian Petroleum Limited	0.0032478
Passburg Petroleums Ltd.	0.2351348
Petro-Canada Inc.	0.2146457
	1.3245826

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Serada Oils Ltd.	0.4338449
Shell Canada Limited	2.4851117
Tiber Energy Corporation	0.1053315
Triple Three Triple Nine Resources Ltd.	0.0066876
Westburne Petroleum & Minerals Ltd.	0.3145725
Yeske Petroleums Ltd.	0.4006474
286535 Alberta Ltd.	0.0129910
	<u>100.0000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# LEDUC - WOODBEND D3 UNIT



INITIAL EFFECTIVE DATE- 1 OCTOBER 1960

UNIT OPERATOR- ESSO RESOURCES CANADA LIMITED

 EXCLUDED FROM UNIT AREA



LONE PINE CREEK D-3 GAS UNIT NO. 1

Unit Operator - Hudson's Bay Oil and Gas Company Limited

Initial Effective Date - 1 September 1970

Participation Revised - 1 September 1987

\*Unitized Zone - Leduc (D-3)

\*Unitized Substance - Natural gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amoco Canada Petroleum Company Ltd.	5.0705
Martha Billes	10.5468
Canadian Superior Oil Ltd.	0.2104
Hudson's Bay Oil and Gas Company Limited	61.4110
Pensionfund Energy Resources Limited	1.1719
Petro Canada Inc.	14.7170
Texaco Canada Resources	6.8724
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# LONE PINE CREEK D-3 GAS UNIT NO.1



INITIAL EFFECTIVE DATE - 1 SEPTEMBER 1970

UNIT OPERATOR - HUDSON'S BAY OIL AND GAS COMPANY LIMITED

MALMO D-3B GAS UNIT

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 March 1977

Participation Revised - 13 August 1987

\*Unitized Zone - Leduc Formation

\*Unitized Substance - Natural gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amoco Canada Petroleum Company Ltd.	7.959660
Bow Valley Industries Ltd.	21.347380
Gulf Canada Resources Limited	34.621580
Norcen Energy Resources Limited	0.842660
Parasol Oil & Gas Ltd.	4.158740
Petro-Canada Inc.	7.960130
John H. Rathwell	0.693130
RTEC One Resources Inc.	11.235470
John A. Tessari	0.693130
Texaco Canada Resources	7.960130
Universal Explorations Ltd.	0.842660
Western Decalta Petroleum (1977) Limited	1.685330
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# MALMO D-3B GAS UNIT



INITIAL EFFECTIVE DATE- 1 MARCH 1977

UNIT OPERATOR- GULF CANADA RESOURCES LIMITED

MAPLE GLEN GAS UNIT

Unit Operator - Wainoco Oil Corporation

Initial Effective Date - 16 March 1976

Participation Revised - 1 September 1987

\*Unitized Zone - Basal Belly River Sandstone & Viking Sandstone

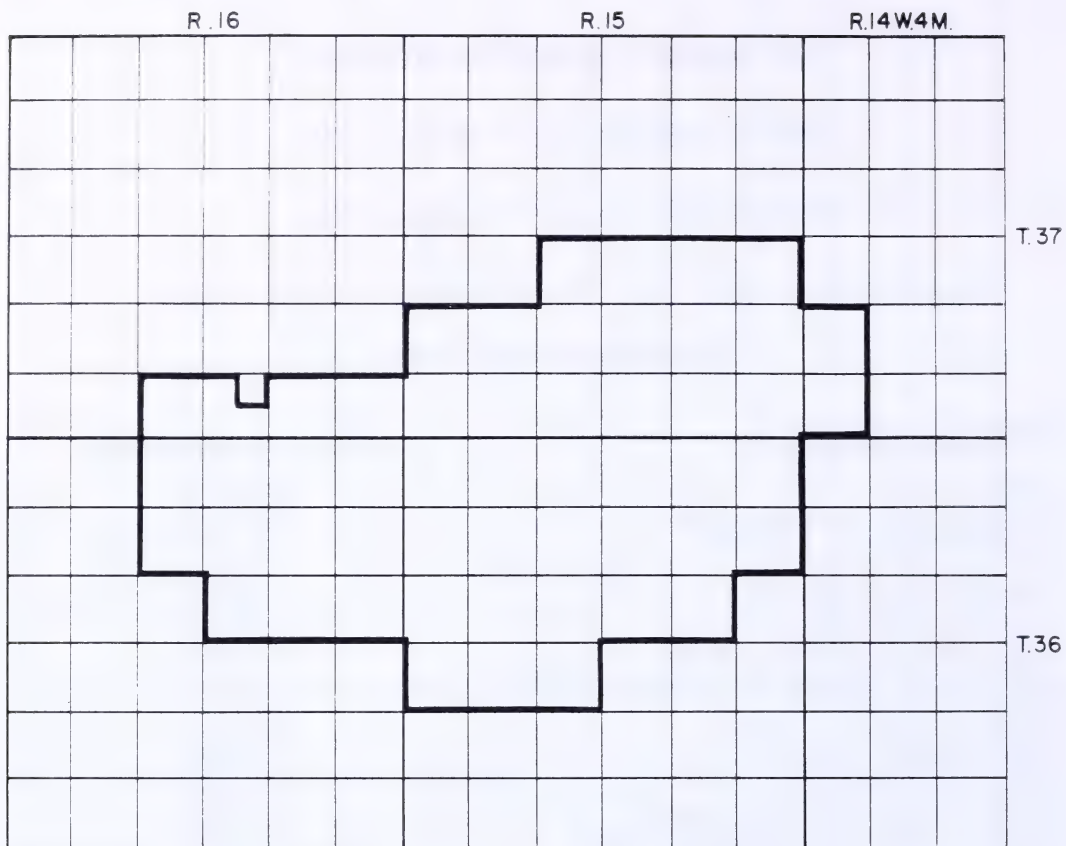
\*Unitized Substance - Gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Asamera Inc.	2.265530
Canadian Roxy Petroleum Ltd.	10.670464
Canadian Superior Oil Ltd.	1.706440
Columbia Gas Development of Canada Limited	0.066389
Dome Petroleum Limited	3.165560
Faraday Resources Inc.	1.812426
Gulf Canada Resources Limited	4.658191
Hudson's Bay Oil and Gas Company Limited	6.275750
Janus Properties Ltd.	2.265530
Maligne Resources Limited	0.422457
Meyers-Lasher, Inc.	2.265530
Mobil Oil Canada, Ltd.	0.248235
Norcen Energy Resources Limited	0.485061
Pacific Lighting Exploration Company	0.345112
PanCanadian Petroleum Limited	9.691738
Petrorep (Canada) Limited	0.172555
Provo Gas Producers Limited	0.420483
Ranchmen's Resources Ltd.	10.670464
Topaz Petroleums Ltd.	0.453104
Universal Explorations Ltd.	0.517667
Voyager Energy Company	0.257694
Wainoco Oil Corporation	41.163620
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances  
see Unit Documents.

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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MAPLE GLEN GAS UNIT



INITIAL EFFECTIVE DATE — 16 MARCH 1976

UNIT OPERATOR - WAINOCO OIL CORPORATION



MEDICINE RIVER UNIT NO. 4

Unit Operator - Pembina Resources Limited

Initial Effective Date - 1 April 1987

\*Unitized Zone - Ostracod Formation

\*Unitized Substance - Petroleum, natural gas, other hydrocarbons (except coal), raw gas, and condensate

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amerada Minerals Corporation of Canada Ltd.	0.551496
Amoco Canada Petroleum Company Ltd.	2.062847
ATCOR Ltd.	7.166206
Barnwell of Canada Limited	3.084804
Bow Valley Industries Ltd.	0.164741
Bowtex Energy Ltd.	0.087706
Canadian Roxy Petroleum Ltd.	0.916722
Canadian Superior Oil Ltd.	6.275976
Candor Investments Ltd.	0.656093
Canterra Energy Ltd.	3.954224
Caroline Petroleums (1985) Ltd.	0.312629
Centipede Holdings Ltd.	1.453460
Chevron Canada Resources Limited	3.427217
Cheyenne Petroleum Corporation	3.761365
Cooperative Energy Development Corporation	3.819453
Copetrex Oil & Gas Co. Ltd. (Sixth Program)	0.217953
Copetrex Oil & Gas Co. Ltd. (Seventh Program)	0.217952
Czar Resources Ltd.	0.363367
Dome Petroleum Limited	0.933368
Drummond Oil & Gas Ltd.	1.782296
EMB Management Consultants Ltd.	0.013959
Glenex Industries Inc.	3.024109
Grandex Energy Ltd.	0.019119
Gulf Canada Corporation	1.525584
Hartwell Management Ltd.	0.032749
Harvard International Resources Ltd.	0.365729
Hudson's Bay Oil and Gas Company Limited	1.274574
HXC Corporation	0.247111
Kerr-McGee Corporation	3.054025
Lario Oil & Gas Company	2.672785
Leddy Exploration Limited	0.444470
Oakwood Petroleums Ltd.	1.857925
Orbit Oil & Gas Ltd.	0.456184

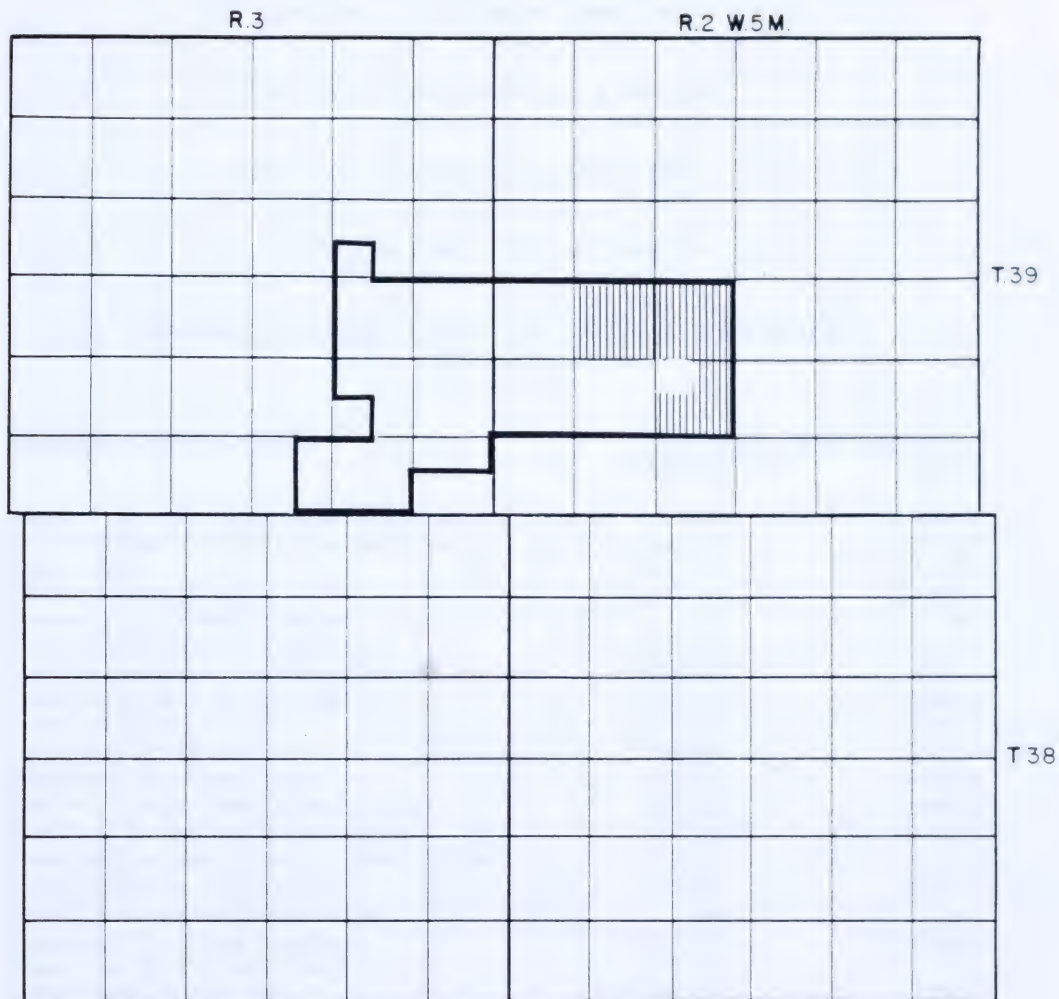
Working Interest OwnersPer Cent Participation

The Paddon Hughes Development Co. Ltd.	6.591823
PanCanadian Petroleum Limited	1.306314
Pembina Resources Limited	13.079223
Petro-Canada Inc.	0.272910
Prairie Oil Royalties Company, Ltd.	1.872400
Que West Resources Ltd.	0.027919
Robert L. McNamara Leaseholds Ltd.	0.038129
RW Mitten Enterprises Ltd.	0.625263
Sabre Petroleums Ltd.	1.337357
Sceptre Resources Limited	6.539612
Seapoint Holdings Ltd.	0.457162
Sylvan Lake Gas Unit No. 2 as represented by the Sylvan Lake Gas Unit No. 2 Operator	11.201032
Universal Explorations Ltd.	0.758665
WWC Ventures Ltd.	0.381361
307964 Alberta Ltd.	0.312632
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



# MEDICINE RIVER UNIT NO.4

INITIAL EFFECTIVE DATE-1 APRIL 1987

UNIT OPERATOR-PEMBINA RESOURCES LIMITED

UNITIZED SUBSTANCE: PETROLEUM,NATURAL GAS AND  
OTHER HYDROCARBONS (EXCEPT COAL)  
RAW GAS AND CONDENSATE

ERCB





Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 May 1987

Participation Revised - 1 September 1987

\*Unitized Zone - Viking Formation

\*Unitized Substance - Petroleum and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>	
	<u>Interim</u>	<u>Final</u>
Adeco Drilling and Engineering Company Ltd.	2.01723	2.20590
Amoco Canada Petroleum Company Ltd.	2.40120	2.34354
Atcor Ltd.	1.57414	1.16279
BP Resources Canada Limited	0.81743	0.85531
Barnwell of Canada Limited	3.13855	3.47491
Blue Range Resources Limited	5.14648	4.36344
C & T Resources (Canadian Jorex Limited)	5.09165	5.00313
Canadian Superior Oil Limited	4.62745	5.02659
Canterra Energy Ltd.	1.64234	1.50027
Caroline (85 Ltd.)	0.42452	0.48255
Centipede Holdings Ltd.	0.23013	0.17136
Chevron Canada Resources Limited	0.54632	0.44933
Cheyenne Petroleum Corporation	4.07506	4.54492
Cooperative Energy Development Corporation	2.50183	2.79144
Czar Resources Limited	1.99086	1.98016
Dekalb Petroleum Corporation	0.13280	0.21240
Drummond Oil & Gas Limited	0.28533	0.20866
Encor Energy Corporation Ltd.	1.19520	1.22331
Glenex Industries Inc.	0.48302	0.35587
Gulf Canada Resources Limited	19.56238	20.26774
Harvard International Resources Ltd.	0.62677	0.73393
Hudson's Bay Oil and Gas Company Limited	8.36640	8.56317
Inverness Petroleum Limited	0.04427	0.07080
Kerr-McGee Corporation	1.51786	1.59145
Lario Oil & Gas Company	3.90314	4.28592
Lazy U Cattle Company	0.10851	0.12686
Luscar Ltd.	1.35620	1.13160
Maxus Energy Canada Ltd.	0.11185	0.17899
Ross R. McKinnon	0.16276	0.19031
Norcen Energy Resources Limited	1.35619	1.13159
Paddon Hughes Development Company Limited	5.37099	5.99675
PanCanadian Petroleum Limited	2.52090	2.17625



<u>Working Interest Owners</u>	<u>Per Cent Participation</u>	
	<u>Interim</u>	<u>Final</u>
Pembina Resources Limited	4.02315	3.08011
Pencor Petroleum Limited	0.02213	0.03540
Polarex Services (1982) Limited	0.16275	0.19030
R. W. Mitten Enterprises Ltd.	0.84901	0.96509
Resman Holdings Limited	4.86310	4.37820
Sabre Petroleums Limited	2.35652	2.16405
Sceptre Resources Limited	0.66674	0.48713
Seapoint Holdings Limited	0.43405	0.50749
Suncor Inc.	2.72204	2.80757
Universal Explorations Ltd.	0.14623	0.10087
307964 Alberta Ltd.	0.42452	0.48255
	<u>100.00000</u>	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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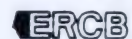
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MEDICINE RIVER VIKING 'D' UNIT NO. 2

INITIAL EFFECTIVE DATE- 1 MAY 1987

UNIT OPERATOR- GULF CANADA RESOURCES LIMITED





MEEKWAP D-2A UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 May 1974

Participation Revised - 1 September 1987

\*Unitized Zone - Nisku (D-2A) Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Canadian Superior Oil Ltd.	10.229770
Gulf Canada Resources Limited	30.711088
J. M. Huber Corporation	4.820512
I.C.G. Resources Limited	8.513290
Oakwood Petroleums Ltd.	13.727881
PanCanadian Petroleum Ltd.	10.396934
Placer Development Ltd.	3.580420
Procan Exploration Company Limited	1.534465
Samedan Oil of Canada, Inc.	13.727880
Shell Canada Limited	2.757760
	<u>100.000000</u>

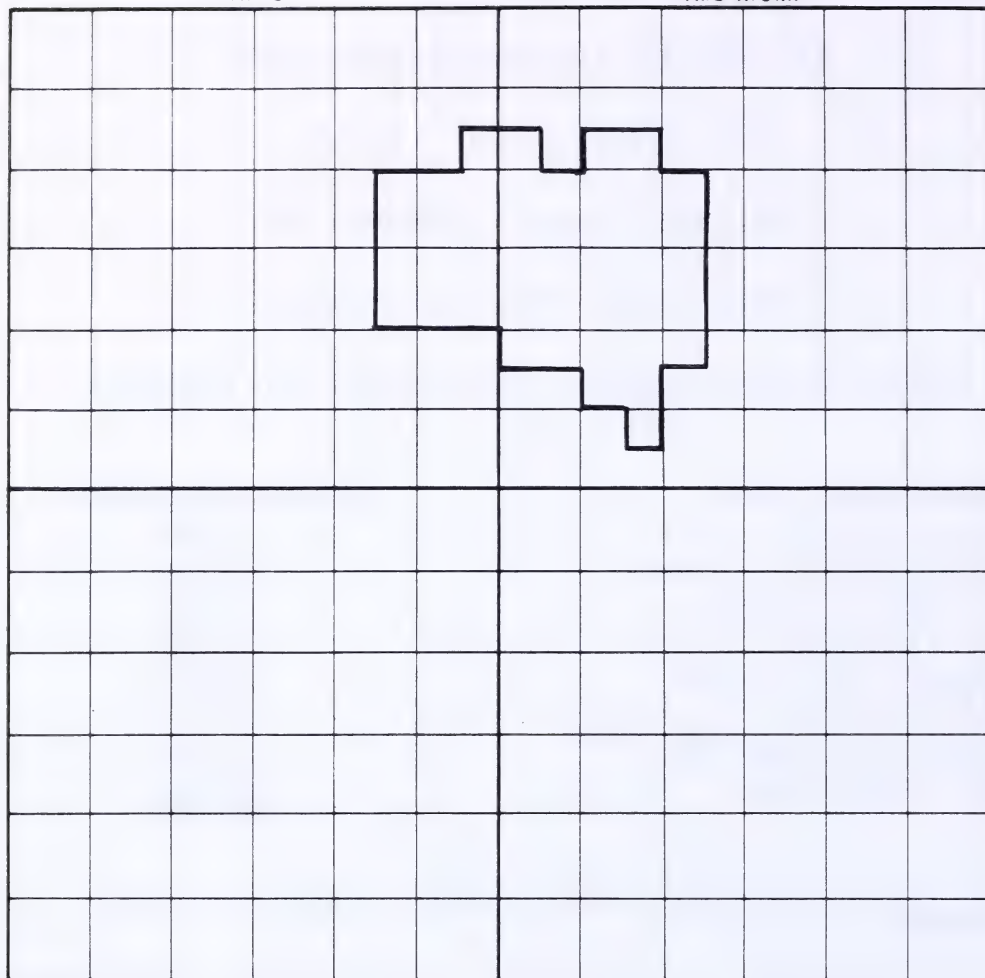
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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MEEKWAP D-2A UNIT NQ1

**ERCB**

INITIAL EFFECTIVE DATE- 1 MAY 1974

UNIT OPERATOR- GULF CANADA RESOURCES LIMITED



MITSUE GILWOOD SAND UNIT NO. 1

Unit Operator - Chevron Canada Resources Limited

Initial Effective Date - 1 May 1968

Participation Revised - 1 August 1987

\*Unitized Zone - Gilwood Sand Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

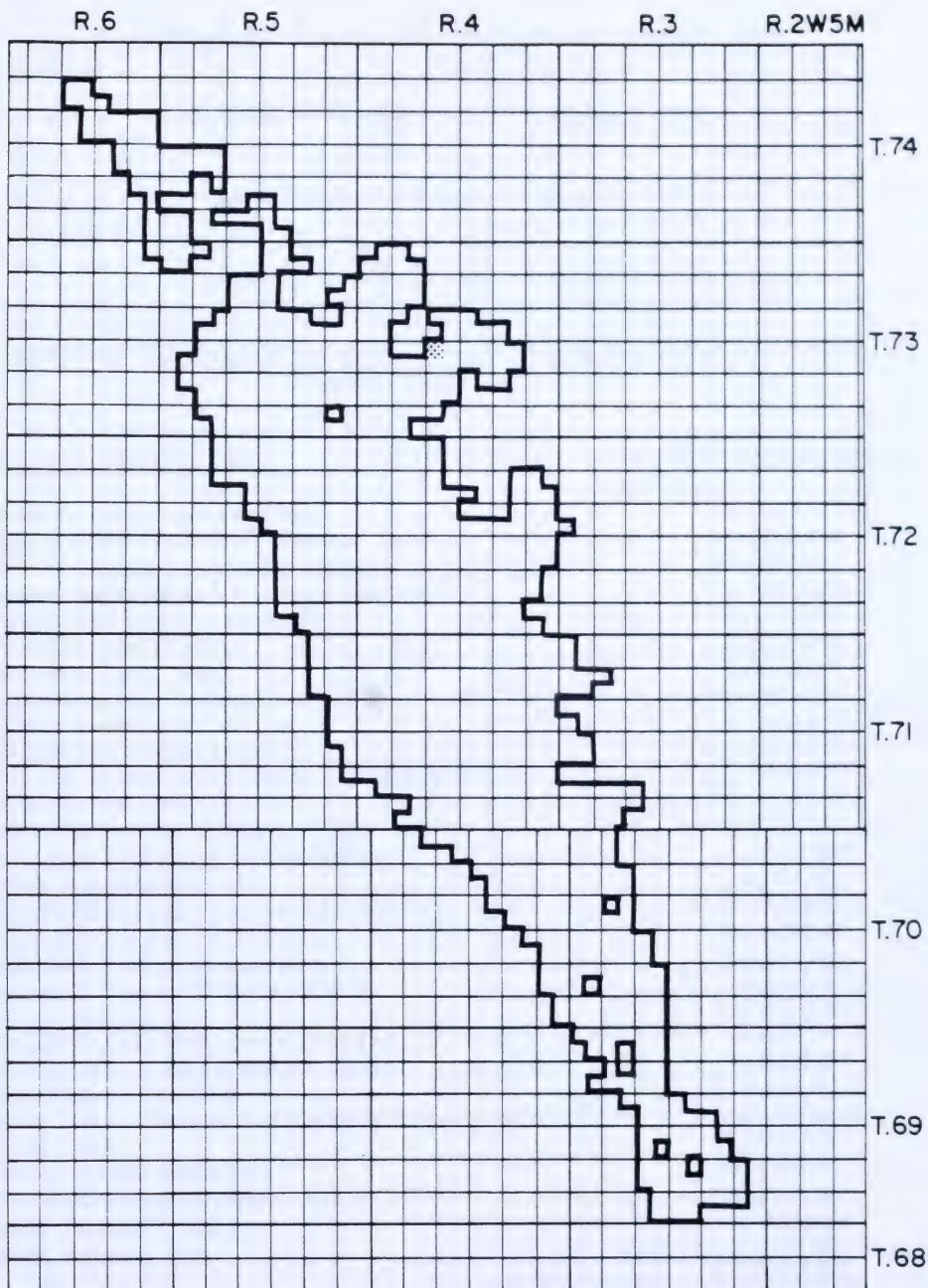
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
110561 Manufacturing Ltd.	0.004531
217192 Holdings Ltd.	0.004721
241231 Alberta Inc.	0.039037
304231 Alberta Ltd.	0.015879
355343 Alberta Ltd.	0.009443
American Eagle Petroleums Ltd.	0.044851
Anderson Exploration Ltd.	0.150011
Atkins & Durbrow Ltd.	0.129245
Angela E. Barlow	0.004721
Bass & Sons Resources, Ltd.	0.039548
Bowtex Energy (Canada) Corporation	0.044841
BP Resources Canada Limited	0.428451
Janet W. Brondyke	0.002360
Robert A. Brondyke, in trust	0.002361
Canadian Superior Oil Ltd.	1.240928
Can-Tex Producing Company Ltd.	0.390379
Canterra Energy Ltd.	0.436117
Chevron Canada Resources Limited	46.066027
Chieftain Development Co. Ltd.	0.017342
Chimo Construction Ltd.	0.039029
Congress Resources Ltd.	0.009340
Cooperative Energy Development Corporation	0.078119
Cotton Petroleum Corporation	0.034256
Danco Resources Ltd.	0.002803
Denison Mines Limited	0.447604
Discovery West Corp.	0.980125
Dorset Energy Corporation	0.009441
Equity Oil Company	0.820251
Esso Resources Canada Limited	26.716873
Forsis Holdings Ltd.	0.009128
Gulf Canada Corporation	0.553881
Home Oil Company Limited	6.783405
Hudson's Bay Oil and Gas Company Limited	0.652061
J. M. Huber Corporation	0.074353
Judy Creek Oil and Gas Ltd.	0.009407
Peter R. Kutney	0.003966

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Ladd Exploration Company	0.009971
Langley Oils Limited	0.001890
Lario Oil & Gas Company	0.585897
Russell T. Lund Oil Trust	0.585893
Maxus Energy Canada, Ltd.	0.015391
Mobil Oil Canada, Ltd.	1.749678
Muirfield Petroleum Corporation	0.003414
Murphy Oil Company Ltd.	0.068284
Musketeer Energy Ltd.	0.148624
M. F. Enterprises	0.001889
Norcen Energy Resources Limited	0.580264
Northern Development Company Limited	0.022348
Numac Oil & Gas Ltd.	0.087577
Oakwood Petroleums Ltd.	0.038533
Pembina Resources Limited	0.865059
Pengrowth Resource Corporation	0.064870
Penn West Petroleum Ltd.	0.062284
Petro-Canada Inc.	2.875111
Prairie Oil Royalties Company, Ltd.	0.069844
Ranger Oil Limited	1.310927
Resman Holdings Ltd.	0.006295
Skywest Resources Corp.	0.012902
Shunex Resources Ltd.	0.004407
Spruce Hills Production Company, Inc.	0.820052
Suncor Inc.	1.307511
Syd Robertson Holdings	0.003776
Texaco Canada Resources	0.059830
Tiverton Petroleums Ltd.	0.018882
Total Petroleum Canada Ltd.	0.516435
Tyler Oils Ltd.	0.022016
Ulster Petroleums Ltd.	0.010404
Ultramar Oil and Gas Canada Limited	0.011707
Universal Explorations Ltd.	0.197143
Western Decalta Petroleum (1977) Limited	1.479768
Wrangler Management Ltd.	0.012954
Zeus Oil & Holdings Ltd.	0.073335
	<u>100.000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



MITISUE GILWOOD SAND UNIT NO.1



INITIAL EFFECTIVE DATE - 1 MAY 1968

UNIT OPERATOR - CHEVRON CANADA RESOURCES LIMITED

AREA OF CHANGE EFFECTIVE - 1 AUGUST 1987





Unit Operator - Amoco Canada Petroleum Company Ltd.

Initial Effective Date - 1 January 1969

Participation Revised - 1 August 1987

\*Unitized Zone - Gilwood Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

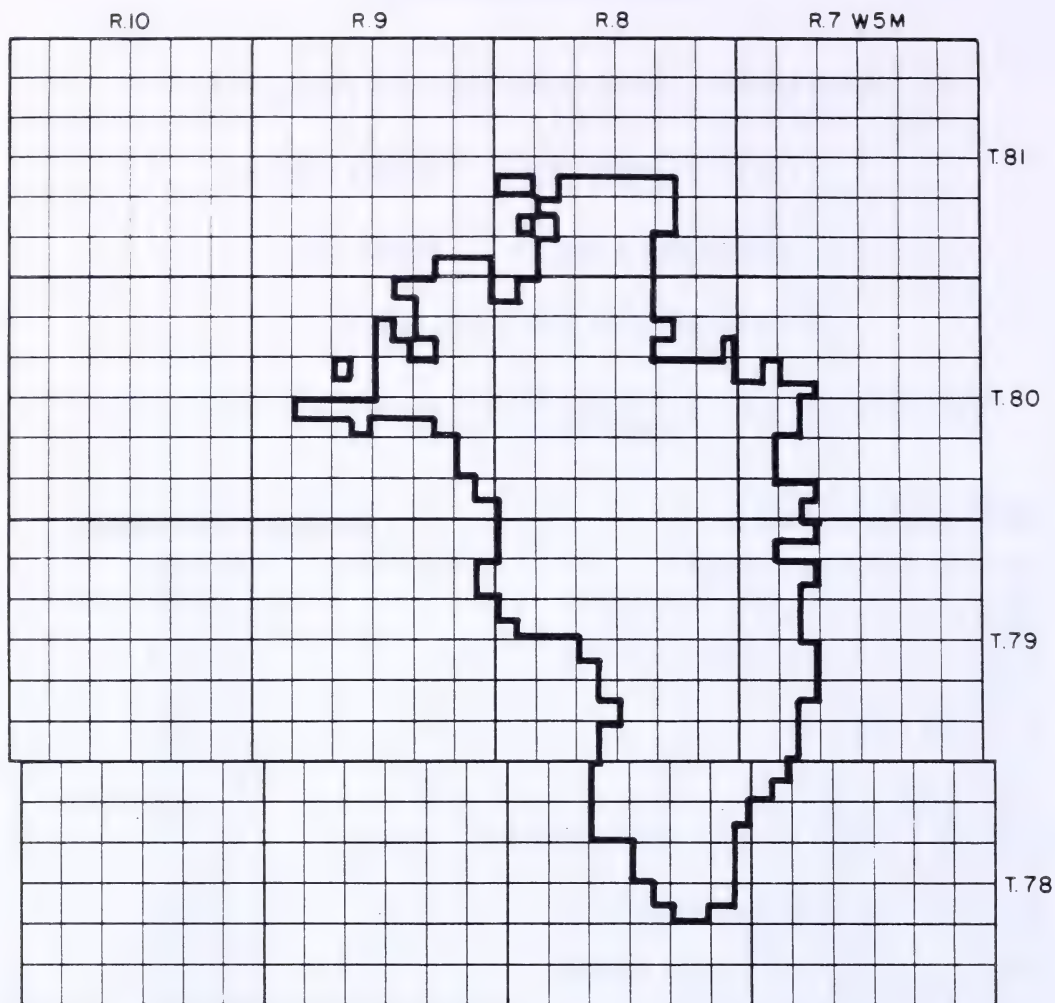
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Aberdeen Petroleum Limited	0.0434832
Amoco Canada Petroleum Company Ltd.	15.0051358
Chevron Canada Resources Limited	15.0564691
Conwest Exploration Company Limited	1.4513270
Conwest Petroleum Corporation	0.1391469
Denison Mines Limited	0.0215204
Discovery West Corp.	0.9162658
Esso Resources Canada Limited	2.8375033
Faraday Resources Inc.	0.0967553
Gulf Canada Corporation	1.8603227
Hamilton Brothers Canadian Gas Company Ltd.	0.9351055
Harman Resources Ltd.	0.4218077
Mobil Oil Canada, Ltd.	8.2225611
Muirfield Petroleum Corporation	0.0065368
Murphy Oil Company Ltd.	0.0871575
Pacific Lighting Exploration Company	0.9162658
Pengrowth Petroleum Limited	0.8334308
Pengrowth Energy Corporation	0.4837765
Pengrowth Resource Corporation	0.1241994
Petro-Canada Inc.	14.3048330
Pioneer Energy Resources Limited	0.1221775
Royal Trust Corporation of Canada	9.1001000
Shell Canada Limited	11.9621645
Spruce Hills Production Company Inc.	0.0436142
Suncor Inc.	0.7456520
Texaco Canada Resources	13.3262112
Total Petroleum (Canada) Ltd.	0.1307362
Unocal Canada Limited	0.1861619
282116 Alberta Inc.	0.6195789
	<u>100.0000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta





# NIPISI GILWOOD UNIT NO.1



INITIAL EFFECTIVE DATE - 1 JANUARY 1969

UNIT OPERATOR - AMOCO CANADA PETROLEUM COMPANY LTD.

NORDEGG GAS UNIT NO. 1

Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 April 1970

Participation Revised - 1 September 1987

\*Unitized Zone - Elkton, Turner Valley, Upper Shunda, and Lower Shunda

\*Unitized Substance - Gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Canterra Energy Ltd.	24.29125
Chevron Canada Resources Limited	0.64930
Esso Resources Canada Limited	12.99350
Gulf Canada Resources Limited	12.45740
Harvard International Resources Ltd.	24.29125
Home Oil Company Limited	2.51960
Mobil Oil Canada, Ltd.	12.99350
Pembina Resources Limited	0.32470
Shell Canada Limited	6.60440
Total Petroleum Canada Ltd.	2.87510
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R.14

R.13

R.12

R.11W.5M.

T.45

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T.43

T.42

**NORDEGG GAS UNIT NO.1**

INITIAL EFFECTIVE DATE- 1 APRIL 1970

UNIT OPERATOR- CANTERRA ENERGY LTD.



NITON UNIT

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 November 1978

Participation Revised - 1 July 1987

\*Unitized Zone - Basal Quartz Sand

\*Unitized Substance - Crude oil or gas

Working Interest Owners

Per Cent Participation

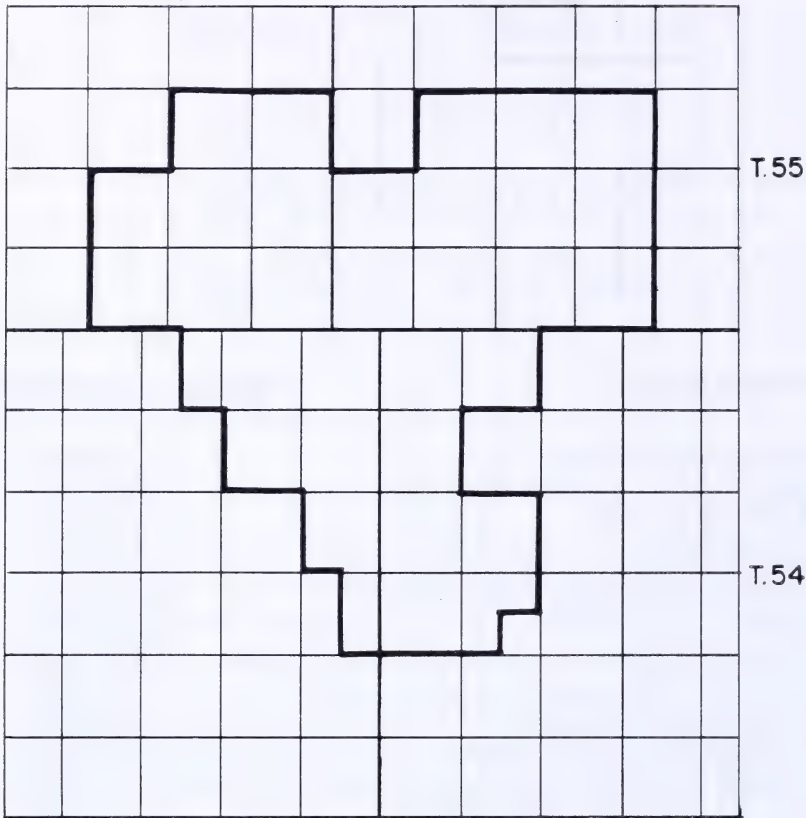
Acquifund Resources Limited	7.29889075
Amoco Canada Petroleum Company Ltd.	6.68404600
Canadian Superior Oil Ltd.	1.59849100
Canterra Energy Ltd.	1.05185300
Columbia Gas Development of Canada Ltd.	0.14033700
Cooperative Energy Development Corporation	11.69163600
Corexcal, Inc.	0.65979300
Denison Mines Limited	3.89640100
Dome Petroleum Limited	5.21761000
Erskine Resources Limited	1.31076025
Esso Resources Canada Limited	25.96420300
Harvard International Resources Ltd.	0.54663800
Home Oil Company Limited	3.19698600
Hudson's Bay Oil and Gas Company Limited	14.15305900
Maligne Resources Limited	2.41002500
Maxus Energy Canada, Ltd.	5.34208400
Mobil Oil Canada, Limited	5.01029000
Petrorep (Canada) Limited	0.41237000
Provo Gas Producers Limited	2.01246400
Western Decalta Petroleum (1977) Limited	1.40206300
	<u>100.00000000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R.12W.5M.



NITON UNIT

INITIAL EFFECTIVE DATE-NOVEMBER 1, 1978

UNIT OPERATOR-ESSO RESOURCES CANADA LIMITED



OYEN VIKING SAND GAS UNIT

Unit Operator - Hudson's Bay Oil and Gas Company Limited

Initial Effective Date - 7 November 1958

Participation Revised - 1 September 1987

\*Unitized Zone - Viking

\*Unitized Substance - Gas

Working Interest Owners

Per Cent Participation

Encor Energy Corporation Inc.	45.16062
Hudson's Bay Oil and Gas Company Limited	<u>54.83938</u>
	100.00000

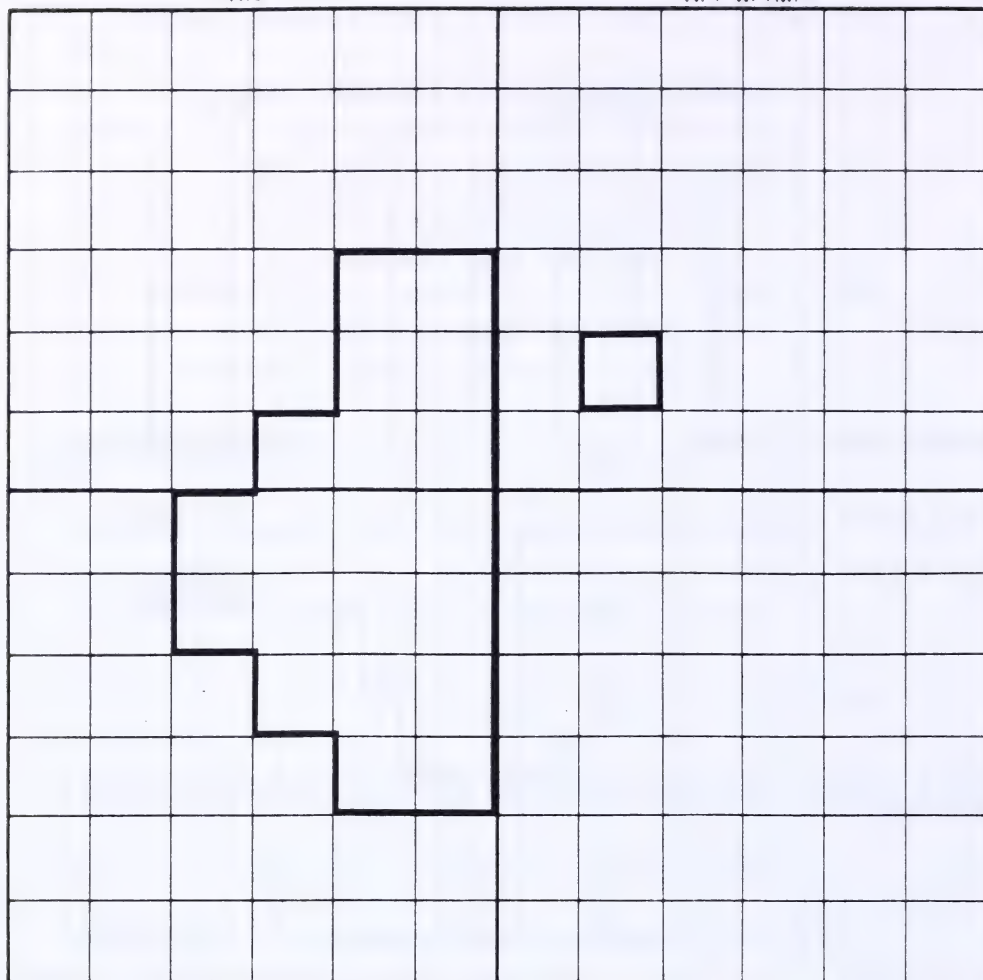
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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# OYEN VIKING SAND GAS UNIT



INITIAL EFFECTIVE DATE - 7 NOVEMBER 1958

UNIT OPERATOR- HUDSON'S BAY OIL AND GAS COMPANY LIMITED

OYEN GAS UNIT NO. 4

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 December 1977

Participation Revised - 1 September 1987

\*Unitized Zone - Viking Formation

\*Unitized Substance - Natural gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Articana Resources Ltd.	5.0000
Reginald J. Gibbs	1.6667
Gold River Oil & Gas Ltd.	8.3333
Gulch Resources Ltd.	5.0000
Gulf Canada Resources Limited	72.3333
Floyd Lander	1.0000
Estate of Albert McCrudden	3.3333
John S. Moore	1.6667
John Stein	1.6667
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



NORTH OYEN GAS UNIT

Unit Operator - Canterra Energy Ltd

Initial Effective Date - 1 February 1965

\*Participation Revised - 1 September 1987

\*Unitized Zone - Viking or Detrital Formations

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except crude oil and coal)

Working Interest Owners

Per Cent Participation

BP Resources Canada Limited	11.1111
Canadian Reserve Oil & Gas Ltd.	11.2500
Canterra Energy Ltd.	62.9167
Gulf Canada Resources Limited	4.5833
Prairie Oil Royalties Co. Ltd.	5.5556
Suncor Inc.	4.5833
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

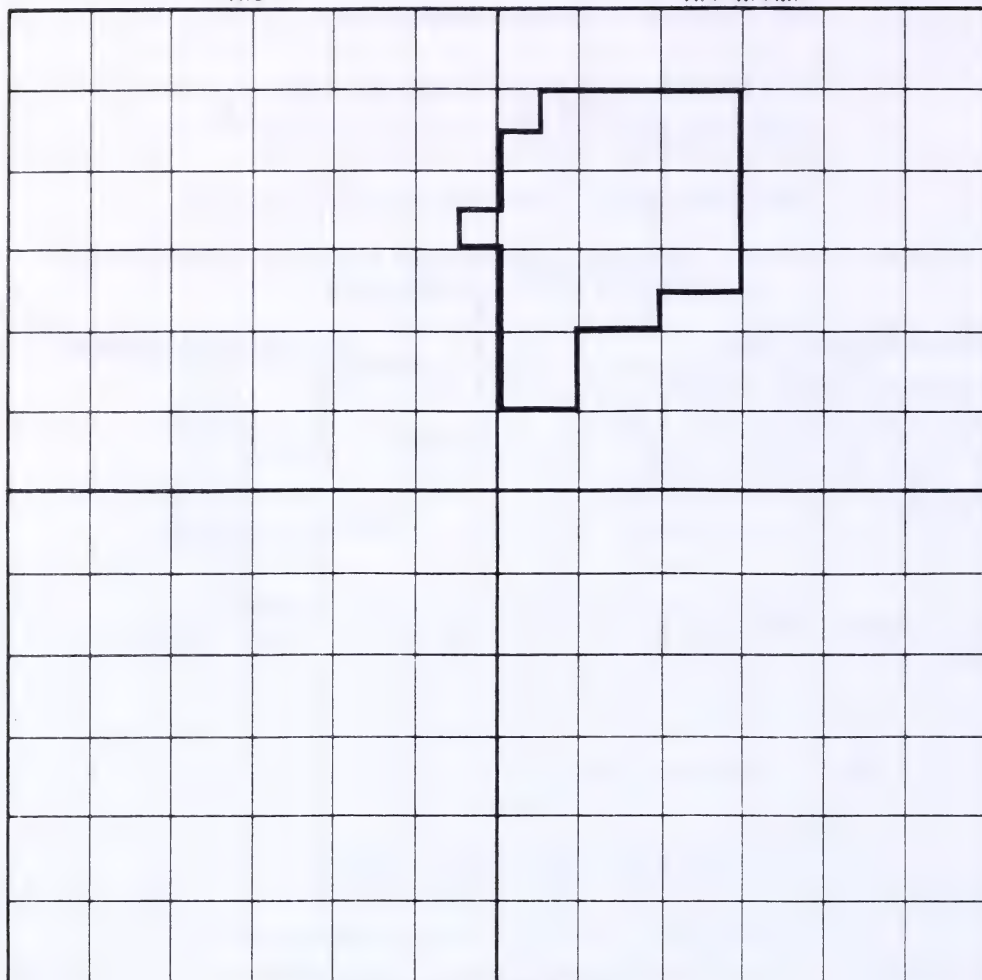
(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta



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R.4 W.4M.



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# NORTH OYEN GAS UNIT



INITIAL EFFECTIVE DATE - 1 FEBRUARY 1965

UNIT OPERATOR- CANTERRA ENERGY LTD.

NORTH PADDLE RIVER GAS UNIT

Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 March 1976

Participation Revised - 1 September 1987

\*Unitized Zone - Nordegg - Pekisko Zone

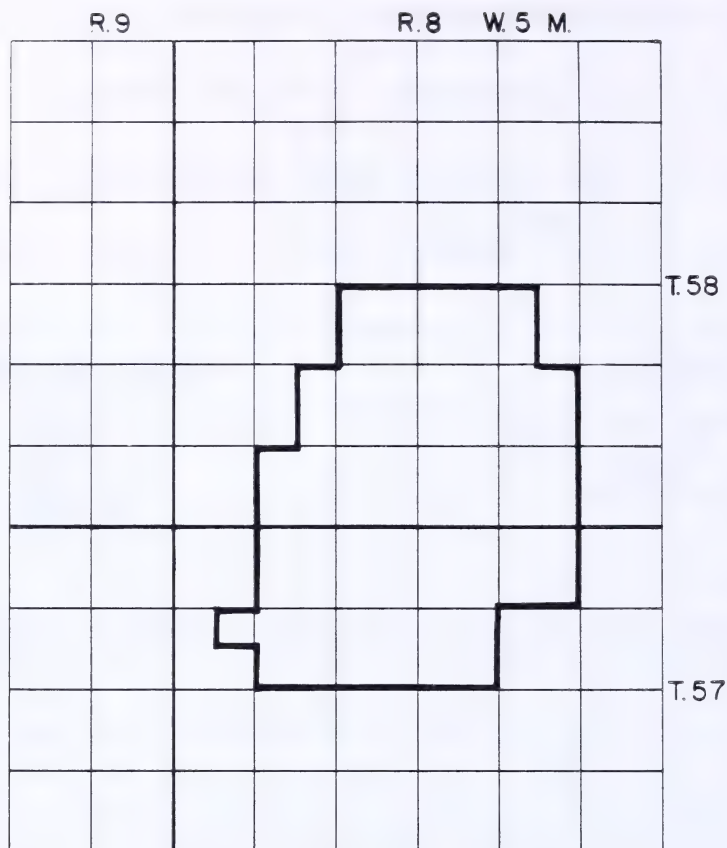
\*Unitized Substance - Gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Canterra Energy Ltd.	78.9920
Gulf Canada Resources Limited	4.1730
Shell Canada Limited	9.3680
Texaco Canada Resources	7.4670
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# NORTH PADDLE RIVER GAS UNIT

INITIAL EFFECTIVE DATE - MARCH 1, 1976

UNIT OPERATOR - CANTERRA ENERGY LTD

PATRICIA GAS UNIT NO. 1

Unit Operator - Dome Petroleum Limited

Initial Effective Date - 1 January 1968

Participation Revised - 1 September 1987

\*Unitized Zone - All Formations down to and including the base of the deepest Formation of the Paleozoic Age

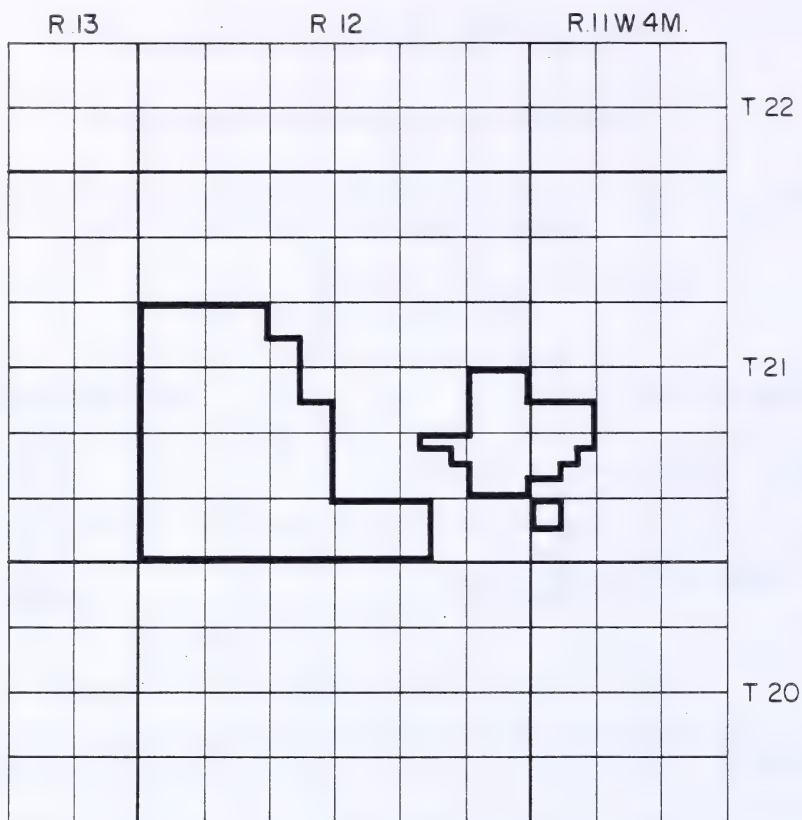
\*Unitized Substance - Gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Alerk Exploration Ltd.	15.00
Chevron Canada Resources Limited	24.82
Dome Petroleum Limited	32.21
Maligne Resources Limited	8.72
Provo Gas Producers Limited	12.25
Shillelagh Exploration Limited	7.00
	<u>100.00</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# PATRICIA GAS UNIT NO.1

INITIAL EFFECTIVE DATE - JANUARY 1, 1968

UNIT OPERATOR - DOME PETROLEUM LIMITED



PEMBINA CARDIUM UNIT NO. 8

Unit Operator - Luscar Ltd.

Initial Effective Date - 1 January 1962

Participation Revised - 1 January 1985

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Crude oil, natural gas, condensate, and all other hydrocarbons (except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Denison Mines Limited	9.84127
Home Oil Company Limited	24.32800
Luscar Ltd.	39.53058
Norcen Energy Resources Limited	23.65566
Ranger Oil Limited	1.99990
Vanguard Petroleums Ltd.	0.64459
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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# PEMBINA CARDIUM UNIT NO.8



INITIAL EFFECTIVE DATE- 1 JANUARY 1962

UNIT OPERATOR- LUSCAR LTD.

RAVEN OSTRACOD GAS UNIT NO. 1

Unit Operator - Hudson's Bay Oil and Gas Company Limited

Initial Effective Date - 1 June 1978

Participation Revised - 1 August 1987

\*Unitized Zone - Ostracod Formation

\*Unitized Substance - Gas

Working Interest Owners

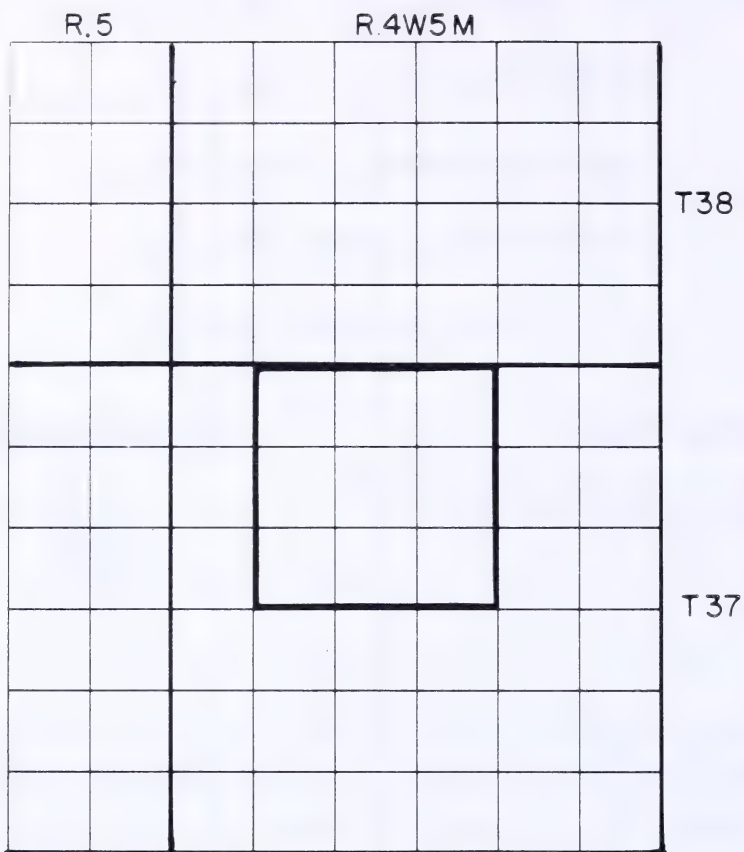
Per Cent Participation

Hudson's Bay Oil and Gas Company Limited	41.88
Norcen Energy Resources Limited	12.34
Petro-Canada Inc.	45.78
	<u>100.00</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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**RAVEN OSTRACOD GAS UNIT NO. 1**

UNIT OPERATOR - HUDSON' BAY OIL AND GAS COMPANY LIMITED

INITIAL EFFECTIVE DATE — JUNE 1, 1978

RICH GAS UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 June 1969

Participation Revised - 1 September 1987

\*Unitized Zone - Glauconite Formation

\*Unitized Substance - Natural gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Gulf Canada Resources Limited	65.00
Ranger Oil Ltd.	<u>35.00</u>
	100.00

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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A 6x6 grid with a black stepped boundary. The boundary starts at the bottom-left corner, moves right for one unit, up for one unit, right for one unit, up for one unit, right for two units, up for one unit, right for one unit, up for one unit, right for one unit, and finally up for one unit to the top-right corner. A wavy line starts at the top edge, moves down and right, crossing the boundary, and exits the right edge.

A 6x6 grid with a black stepped boundary. The boundary starts at the bottom-left corner, moves right for one unit, up for one unit, right for one unit, up for one unit, right for two units, up for one unit, right for one unit, up for one unit, right for one unit, and finally up for one unit to the top-right corner. A wavy line starts at the top edge, moves down and right, crossing the boundary, and exits the right edge.

A 6x6 grid with a black stepped boundary. The boundary starts at the bottom-left corner, moves right for one unit, up for one unit, right for one unit, up for one unit, right for two units, up for one unit, right for one unit, up for one unit, right for one unit, and finally up for one unit to the top-right corner. A wavy line starts at the top edge, moves down and right, crossing the boundary, and exits the right edge.

INITIAL EFFECTIVE DATE — JUNE 1, 1969

UNIT OPERATOR — GULF CANADA RESOURCES LIMITED

UNIT OPERATOR— GULF CANADA RESOURCES LIMITED

**ERC**

RICINUS CARDIUM UNIT NO. 2

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 February 1982

Participation Revised - 1 September 1987

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

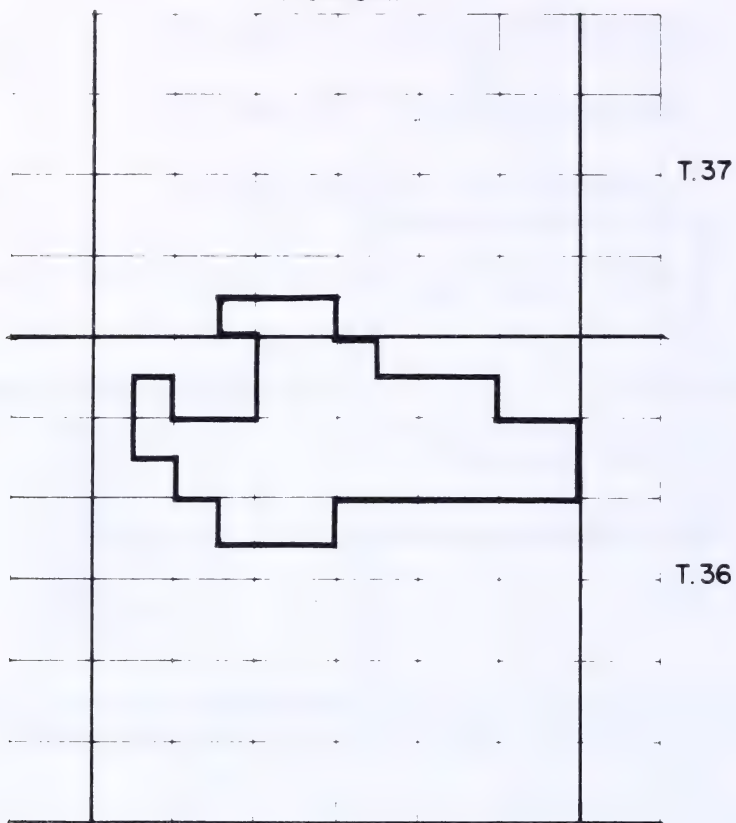
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amerada Minerals Corporation of Canada Ltd.	17.09355
Amoco Canada Petroleum Company Ltd.	12.54275
Canterra Energy Ltd.	0.00863
Encor Energy Corporation Inc.	0.01066
Gulf Canada Resources Limited	53.54224
Petro-Canada Inc.	12.54275
Placer CEGO Petroleum	<u>4.25942</u>
	100.00000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R.9W.5M.



**RICINUS CARDIUM UNIT NO.2**

UNIT OPERATOR— GULF CANADA RESOURCES LIMITED

INITIAL EFFECTIVE DATE—FEBRUARY 1, 1982.

ROWLEY BELLY RIVER GAS UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 March 1976

Participation Revised - 1 September 1987

\*Unitized Zone - Basal Belly River "A" Sand

\*Unitized Substance - Natural gas

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
American Eagle Petroleums Ltd.	5.673555
Atcor Ltd.	5.673556
Consolidated Oil and Gas (Canada) Ltd.	12.912388
Gulf Canada Resources Limited	49.203011
Hudson's Bay Oil and Gas Company Limited	9.523150
Kerr-McGee Corporation	3.492586
Murphy Oil Company Limited	0.416670
PanCanadian Petroleum Limited	1.758296
Woodbend Oil & Gas Ltd.	11.346788
	<u>100.000000</u>

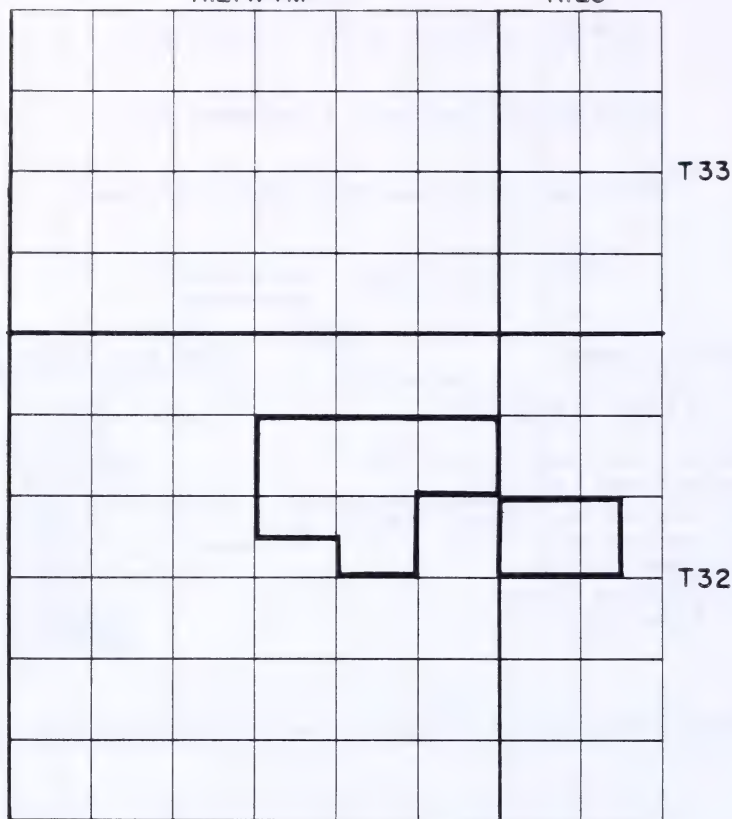
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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ROWLEY BELLY RIVER GAS UNIT NO. 1

INITIAL EFFECTIVE DATE — MARCH 1, 1976

UNIT OPERATOR — GULF CANADA RESOURCES LIMITED



SIBBALD UNIT NO. 1

Unit Operator - BP Resources Canada Limited

Initial Effective Date - 1 August 1984

Participation Revised - 1 June 1987

\*Unitized Zone - Upper Mannville "C" Formation

\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

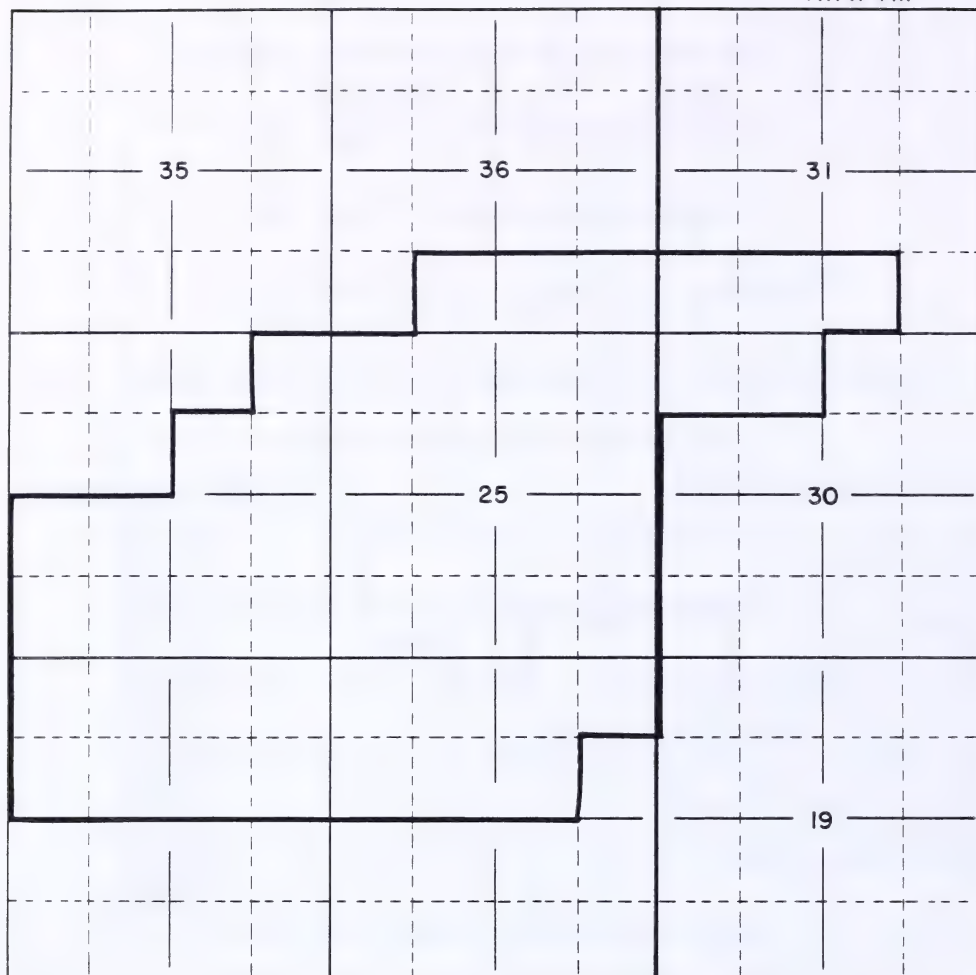
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
BP Resources Canada Limited	45.7105
Cory Oil & Gas Ltd.	0.5763
Hero Petroleum Ltd.	0.4939
Hudson's Bay Oil and Gas Company Limited	12.6175
Frank Kettner	0.4939
Nancy Oil & Gas Ltd.	0.5763
Paloma Petroleum Ltd.	7.4089
Pensionfund Energy Resources Limited	3.7045
Precambrian Shield Resources Limited	20.7645
Staniloff Oil & Gas Ltd.	0.5763
Texaco Canada Resources	6.0896
David Zivot	0.4939
291152 Alberta Ltd.	0.4939
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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**ERC**

UNIT OPERATOR- BP RESOURCES CANADA LIMITED

NORTH SIBBALD GAS UNIT

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 15 September 1964

Participation Revised - 1 September 1987

\*Unitized Zone - Viking, Bakken and Victoria Formations

\*Unitized Substance - Natural gas

Working Interest Owners

Per Cent Participation

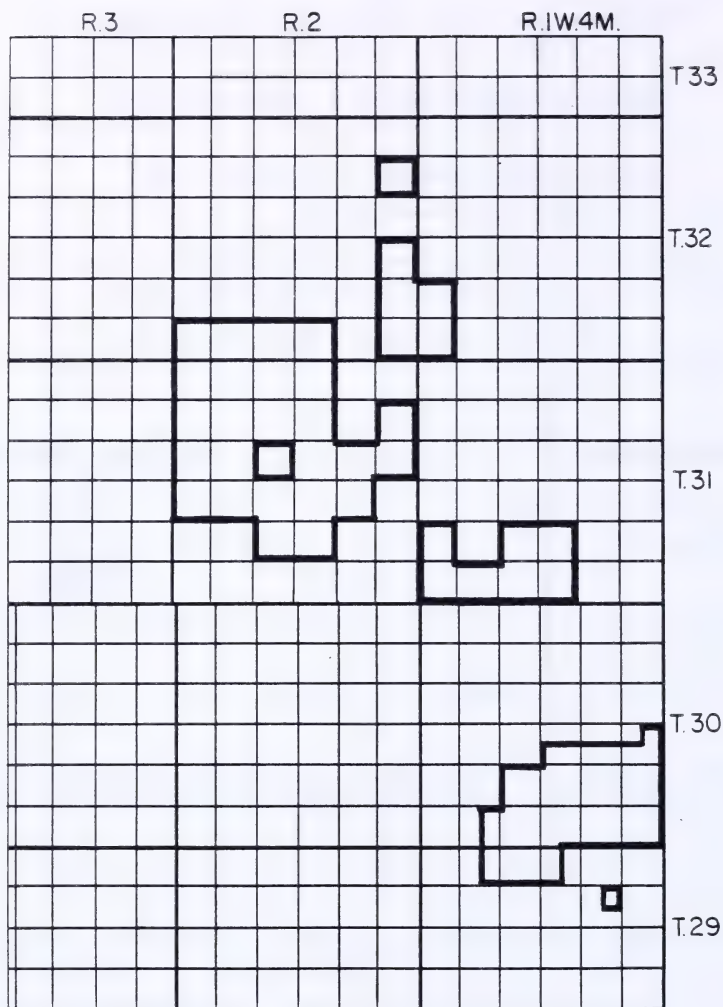
Gulf Canada Resources Limited  
Suncor Inc.  
United Canso Oil & Gas Ltd.

62.8784  
30.7939  
6.3277  
100.0000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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## NORTH SIBBALD GAS UNIT

UNIT OPERATOR — GULF CANADA RESOURCES LIMITED

INITIAL EFFECTIVE DATE— SEPTEMBER 15, 1964

STOLBERG GAS UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 July 1980

Participation Revised - 1 September 1987

\*Unitized Zone - Rundle Zone

\*Unitized Substance - Natural gas

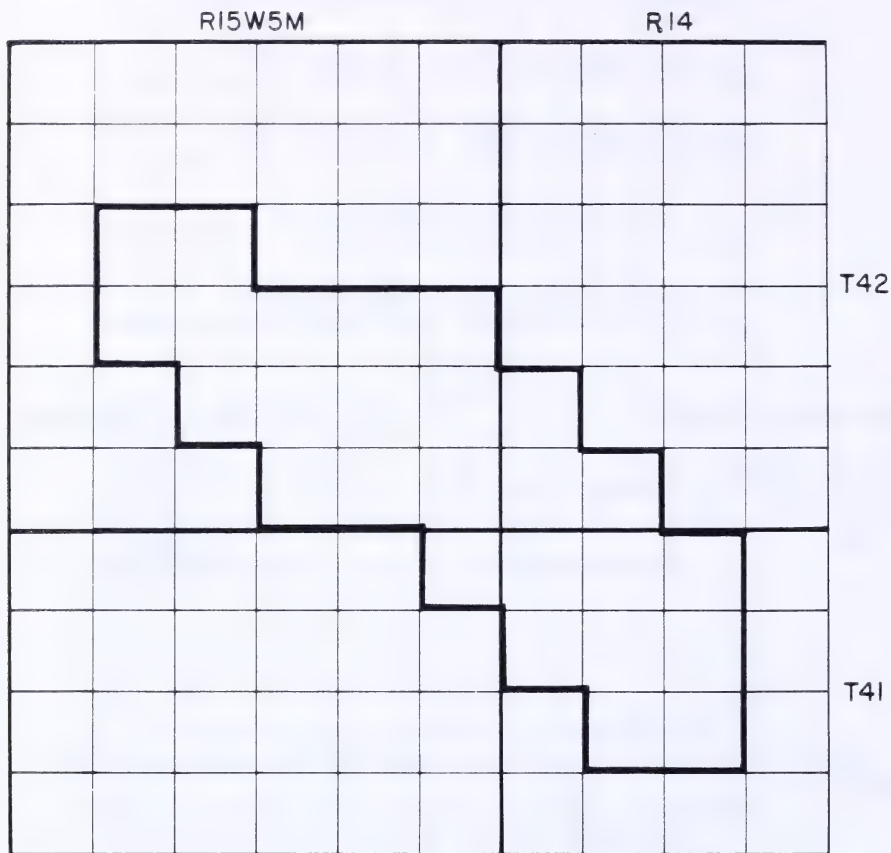
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
BP Resources Canada Limited	20.00000
Gulf Canada Resources Limited	37.50785
Mobil Oil Canada, Ltd.	14.50344
Suncor Inc.	27.98871
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
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# STOLBERG GAS UNIT NO. 1

UNIT OPERATOR — GULF CANADA RESOURCES LIMITED

INITIAL EFFECTIVE DATE — 1 JULY, 1980

STRACHAN LEDUC D-3 GAS UNIT NO. 1

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 February 1971

Participation Revised - 1 September 1987

\*Unitized Zone - Leduc D-3 Formation

\*Unitized Substance - Natural gas

Working Interest Owners

Per Cent Participation

Amerada Minerals Corporation of Canada Ltd.	20.581486
Encor Energy Corporation Inc.	23.168514
Gulf Canada Resources Limited	50.000000
Placer CEGO Petroleum	6.250000
	<u>100.000000</u>

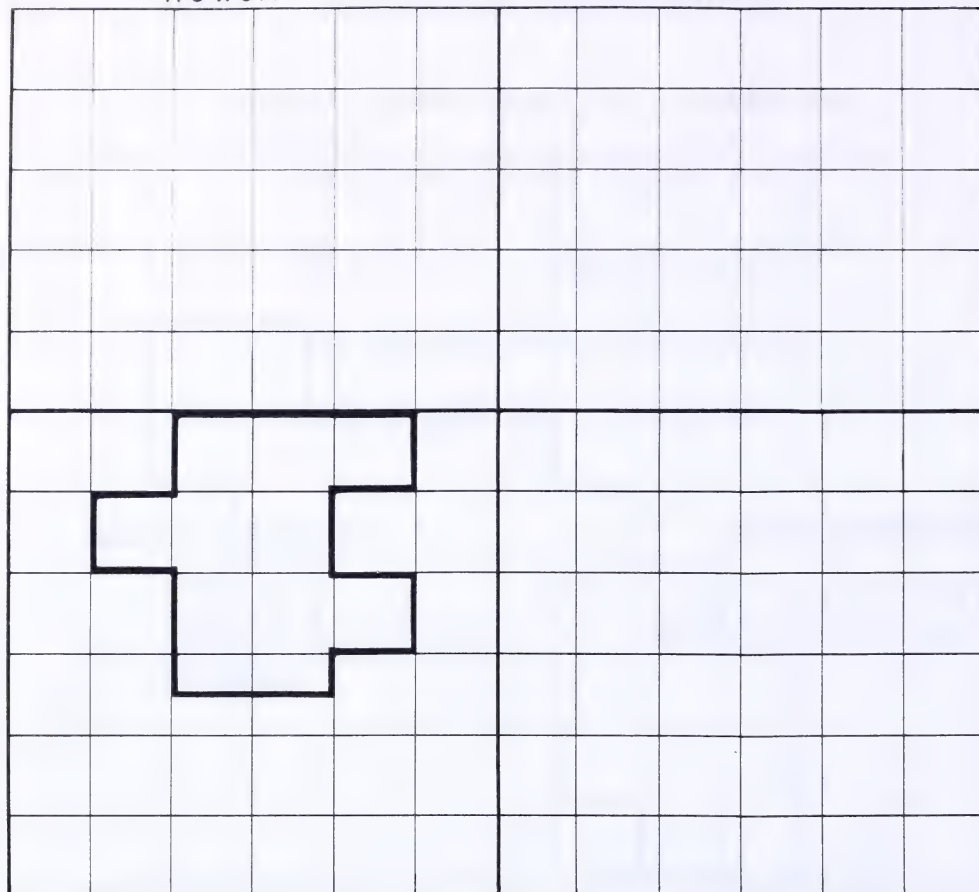
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R 9 W 5 M

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# STRACHAN LEDUC D-3 GAS UNIT NO. 1

INITIAL EFFECTIVE DATE — FEBRUARY 1, 1971

UNIT OPERATOR — GULF CANADA RESOURCES LIMITED

EAST SWAN HILLS UNIT

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 June 1967

Participation Revised - 1 April 1987

\*Unitized Zone - Swan Hills Member

\*Unitized Substance - Crude oil, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
BHP Petroleum (Canada) Inc.	1.08890
Comaplex Resources International Ltd.	2.67778
Denison Mines Limited	1.03802
Harvard International Resources Ltd.	1.06214
Eugene F. Hochhausen	1.06215
Mobil Oil Canada Limited	37.79379
Musketeer Energy Ltd.	0.66133
Norcen Energy Resources Limited	0.39680
Norpet Oil & Gas Ltd.	2.67778
Numac Oil & Gas Limited	1.03802
Petro-Canada Inc.	42.21186
Texaco Canada Resources	8.29143
	<u>100.00000</u>

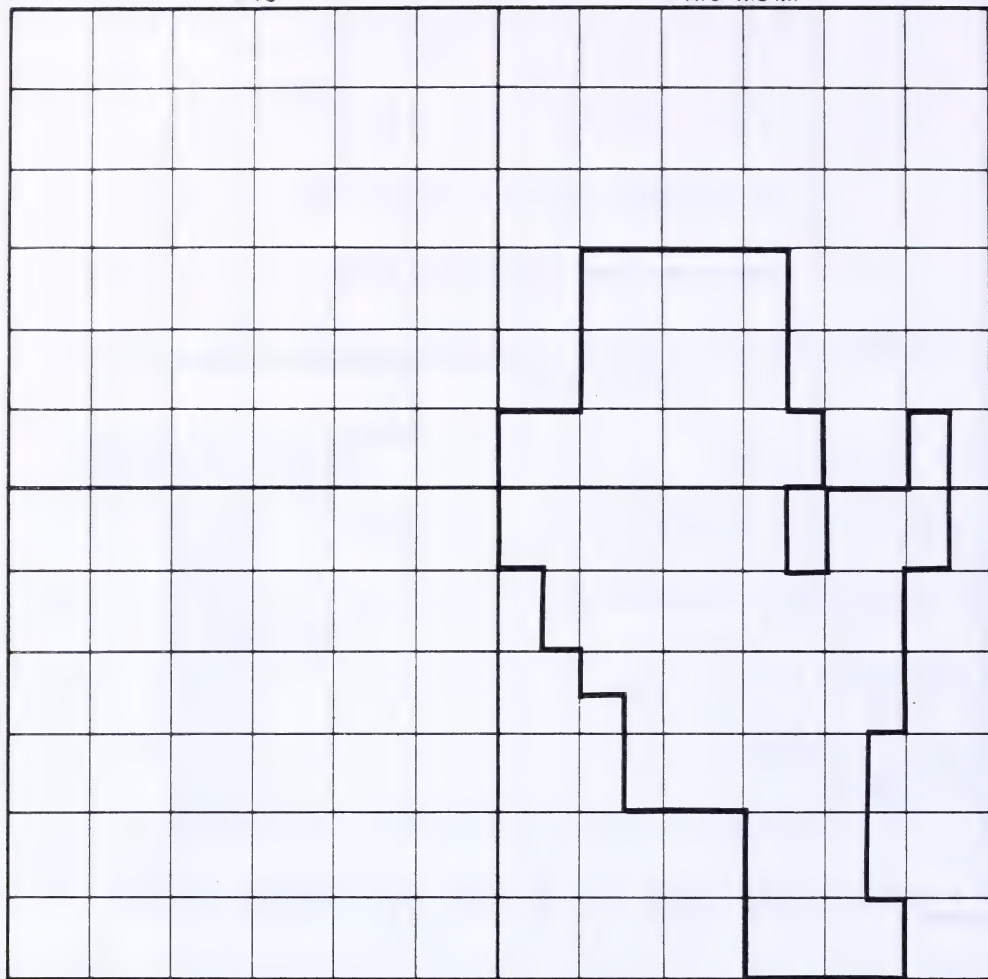
\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

R.10

R.9 W.5 M.



## EAST SWAN HILLS UNIT

INITIAL EFFECTIVE DATE- 1 JUNE 1967

UNIT OPERATOR- PETRO-CANADA INC.



SOUTH THREE HILLS CREEK UNIT

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 17 January 1964

Participation Revised - 1 September 1987

\*Unitized Zone - Pekisko Formation

\*Unitized Substance - Natural gas, condensate and other hydrocarbons  
(except coal and crude oil)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Amoco Canada Petroleum Company Ltd.	4.4970
Gulf Canada Resources Limited	42.5587
Hudson's Bay Oil and Gas Company Limited	6.5589
Mobil Oil Canada, Ltd.	15.1176
Murphy Oil Company Ltd.	21.0330
Shell Canada Limited	10.2348
	<u>100.0000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

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Calgary, Alberta



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## UNIT OPERATOR — GULF CANADA RESOURCES LIMITED

**ERC**

VIRGINIA HILLS BHL UNIT NO. 2

Unit Operator - Cooperative Energy Development Corporation

Initial Effective Date - 1 October 1979

Participation Revised - 1 July 1987

\*Unitized Zone - Beaverhill Lake Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons  
(except coal)

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Atcor Ltd.	1.23808
Canadian Superior Oil Ltd.	7.71675
Cooperative Energy Development Corporation	49.44644
Denison Mines Limited	1.23809
Home Oil Company Limited	12.15438
Hudson's Bay Oil and Gas Company Limited	11.36225
Trilogy Resource Corporation	1.23808
Union Oil Company of Canada Limited	14.36784
Woodbend Oil & Gas Ltd.	1.23809
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

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INITIAL EFFECTIVE DATE — OCTOBER 1, 1979

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VIRGINIA HILLS BELLOY - SHUNDA UNIT NO. 1

Unit Operator - Shell Canada Limited

Initial Effective Date - 1 May 1982

Participation Revised - 1 July 1987

\*Unitized Zone - Belloy-Shunda Formation

\*Unitized Substance - Gas and oil

<u>Working Interest Owners</u>	<u>Per Cent Participation</u>	
	<u>Oil Interests</u>	<u>Gas Interests</u>
Amoco Canada Petroleum Company Ltd.	1.41036	0.50123
Cotton Petroleum Corporation	1.41036	0.50123
Dome Petroleum Limited		0.19636
Gulf Canada Corporation		0.29457
Norwich Resources Canada Ltd.	0.94025	0.33416
Pennzoil Petroleums Ltd.	13.01730	8.20558
Provo Gas Producers Limited		0.09821
Shell Canada Limited	83.22173	89.86866
	<u>100.00000</u>	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reserve Side)

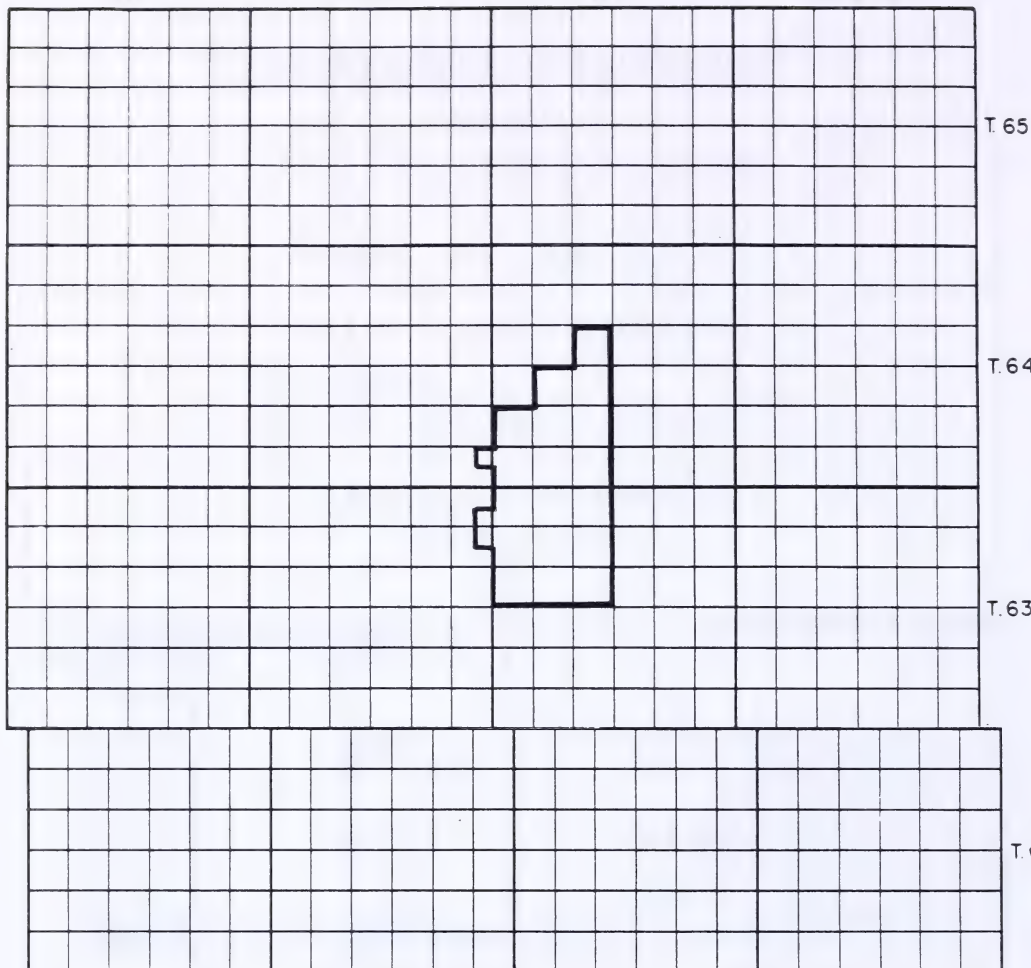
ENERGY RESOURCES CONSERVATION BOARD  
Calgary, Alberta

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**VIRGINIA HILLS BELLOY-SHUNDA UNIT NO.1**

INITIAL EFFECTIVE DATE -1 MAY 1982

UNIT OPERATOR - SHELL CANADA LIMITED

WESTEROSE LEDUC (D-3) UNIT

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 January 1955

Participation Revised - 1 September 1987

\*Unitized Zone - Leduc D-3 Formation

\*Unitized Substance - Petroleum, natural gas, distillate condensate and other hydrocarbons

Working Interest Owners

Per Cent Participation

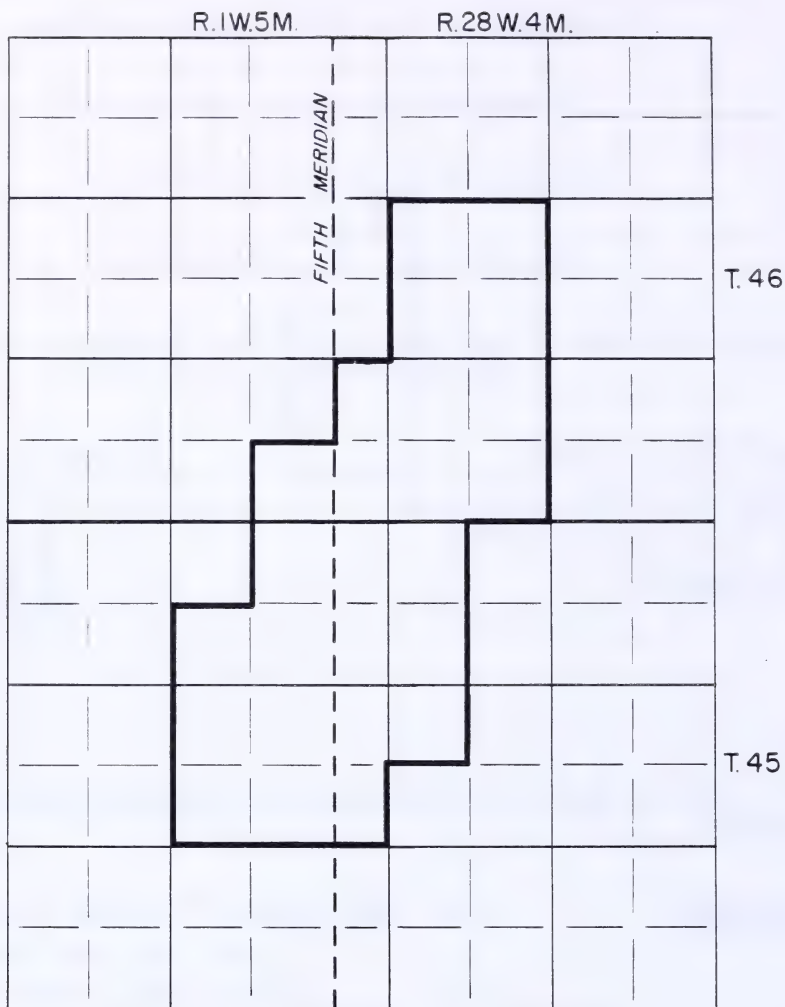
Chevron Canada Resources Limited	27.12010
Gulf Canada Resources Limited	46.27080
Husky Oil Operations Ltd.	13.30455
Petro-Canada Inc.	<u>13.30455</u>
	100.00000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

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## WESTEROSE LEDUC (D-3) UNIT

UNIT OPERATOR — GULF CANADA RESOURCES LIMITED

INITIAL EFFECTIVE DATE — JANUARY 1, 1955

WESTEROSE SOUTH (DICK LAKE) LEDUC UNIT

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 December 1960

Participation Revised - 1 September 1987

\*Unitized Zone - Leduc Formation

\*Unitized Substance - Crude oil, natural gas, condensate and all other hydrocarbons (except coal)

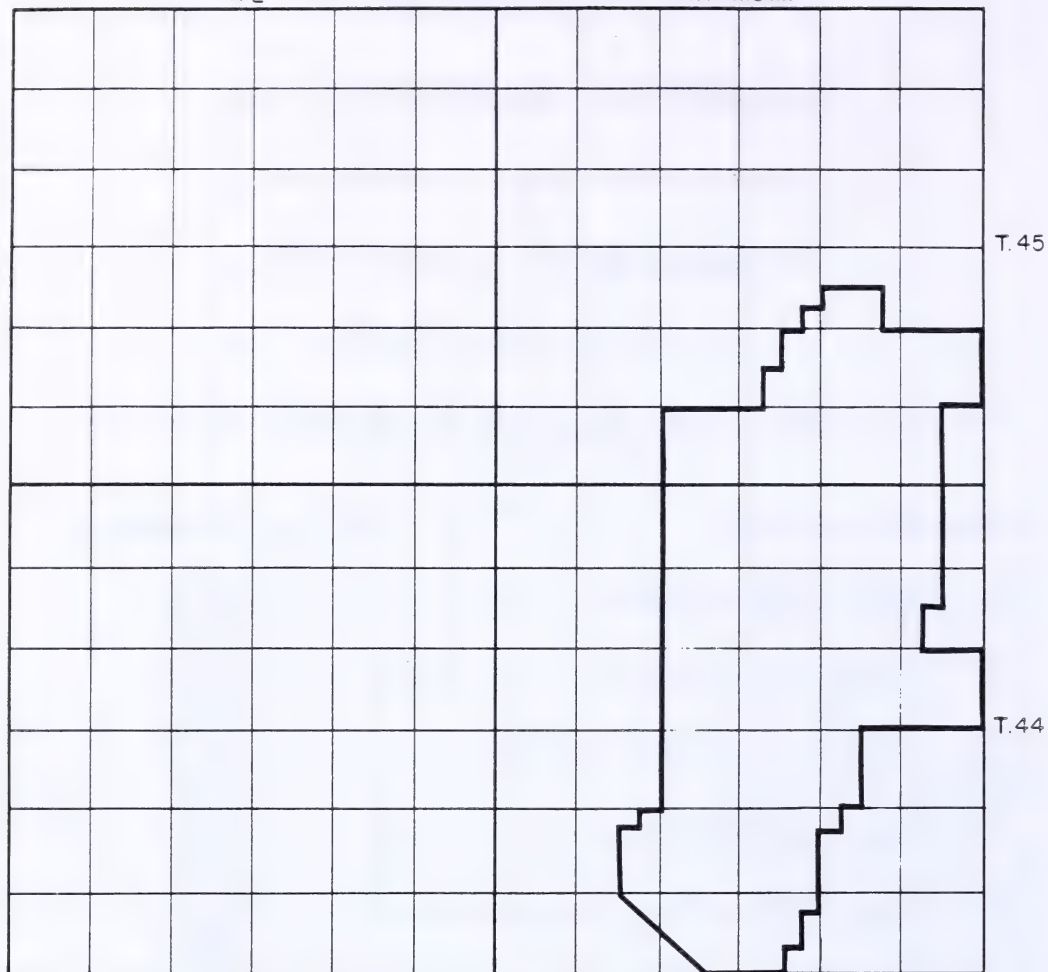
<u>Working Interest Owners</u>	<u>Per Cent Participation</u>
Canadian Jorex Limited	0.12299
Chevron Canada Resources Limited	32.34539
Drummond Oil & Gas Ltd.	1.62808
General American Oils, Ltd.	0.01504
Gulf Canada Resources Limited	42.57613
J. M. Huber Corporation	0.00547
Hudson's Bay Oil and Gas Company Limited	3.08833
Husky Oil Operations Ltd.	9.27540
Kerr-McGee Corporation	0.00958
Leddy Exploration Limited	0.01504
Norcen Energy Resources Limited	0.35141
Petro-Canada Inc.	9.27540
Samedan Oil of Canada, Inc.	0.08785
Star Oil & Gas Ltd.	1.05376
Suncor Inc.	0.00957
Herbert Daniel Wyman	0.14056
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

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**ERC**

UNIT OPERATOR- GULF CANADA RESOURCES LIMITED

WESTLOCK GAS UNIT

Unit Operator - Norcen Energy Resources Ltd.

Initial Effective Date - 1 July 1969

Participation Revised - 1 November 1982

\*Unitized Zone - Viking Formation

\*Unitized Substance - Natural gas

Working Interest Owners

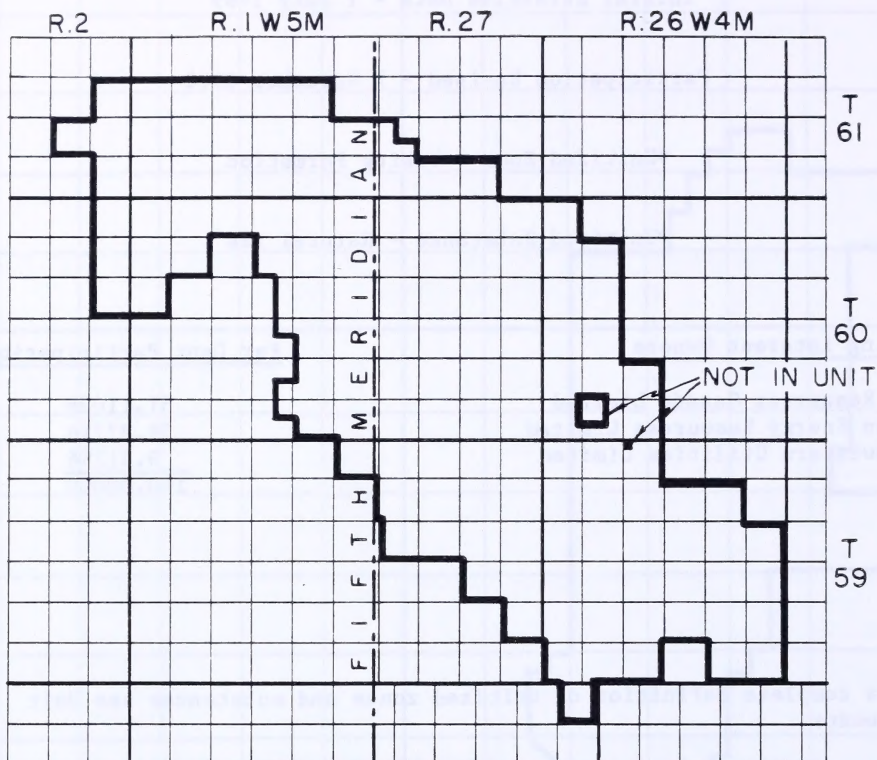
Per Cent Participation

Esso Resources Canada Limited	51.11028
Norcen Energy Resources Limited	39.37716
Northwestern Utilities Limited	9.51256
	<u>100.00000</u>

\*For a complete definition of unitized zones and substances see Unit Documents

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## WESTLOCK GAS UNIT

INITIAL EFFECTIVE DATE JULY 1, 1969.

UNIT OPERATOR — NORCEN ENERGY RESOURCES LIMITED









# WESTLOCK GAS UNIT

INITIAL EFFECTIVE DATE: 12/1/1965

UNIT OPERATOR - NOKEN ENERGY SERVICES LIMITED